

PRODUCT CATALOG

2021

Committed to delivering value to
Customers over years

- ✓ High Quality Products
- ✓ Value for Money
- ✓ Service Delivery Excellence

ABOUT US

With an existence of close to a decade, ExTell Systems has been a reliable manufacturer of Structured Cabling Products since 2011. Today we are positioned as a competitive, value-based manufacturer of high quality IT Networking Products and Energy Solutions with a focus on providing solutions that meet the market requirements. Our competitive solutions serve the small and medium business and enterprises markets and have been recognized in our present markets for their quality, reliability and innovation. Our products offer broad interoperability throughout the industry, along with unrivaled features, flexibility and price competitiveness.

Our locations

ExTell products are available through our established global distribution channels. We are a private corporation headquartered in **Florida, USA** with regional locations in **Canada** and **UAE** with a focus on expansion.

ExTell has a wide Distribution presence in the **USA, Canada, Egypt, Mozambique, Nigeria, Saudi Arabia, UAE, Bahrain and Qatar.**



OUR PRODUCT PORTFOLIO

EXTELL COMMUNICATION

- **COPPER SYSTEMS**
 - CAT 3, 5, 6, 6A & 7 Systems
 - Fire Alarm Systems
 - Control Cables
 - Speaker Cables
- **FIBER OPTIC SYSTEMS**
- **RACKS AND ACCESSORIES**
- **ACTIVE COMPONENTS**

EXTELL ENERGY

- **UPS SYSTEMS - 1 TO 1000KVA**
- **BATTERY**
- **SOLAR PRODUCTS**

Manufacturing Facilities

ExTell's state of the art manufacturing hubs are located in Poland and Taiwan and are ISO certified for quality. With a Design and R&D team based in the US, ExTell creates solutions that are tailored to market requirements in the geographic markets we are present in.

Warranty Policy

All ExTell Communication - Fiber and Copper cabling products are designed for long life for up to 25 years or more. All products are sold and installed with assured quality and service through the network of approved Distributors and Integrators.

All ExTell Energy UPS Products Warranty are covered through Authorized Distributors and Resellers.

Warranty Coverage

Power Products, Active Networking Products are covered as per the appropriate Warranty guidelines defined for each Part Number. Customers can fully avail warranty through Authorized Distributors deputed in their respective country.

To get the details of the Distributor, please visit our website: www.extellsystems.com

International Compliances Followed

All ExTell Systems products are compliant as per International Standards and subject to regular testing. Some of the standards are highlighted below:

- EN 50173-1:2007, including amendments A1:2008 and FprAB:2010
 - ISO/IEC 11 801:2002 (Ed 2.0) including amendments
 - EN 50173-2:2007, including amendment A1:2010
 - ISO/MEC 11 801 Amendment 2:2010-UL
 - IEC 61156-5:2009 (Ed 2.0)
 - EN 50173-1:2011
 - ANSI/TIA-568-C.2:2009
 - ISO/IEC 11 801 (Ed 2.0)
 - ANSI/TIA-568-C.2
 - Delta EC/UL
 - TIA/EIA-568-B.2
 - CMX/CM
-

Third Party Certification

All ExTell Product Portfolio are suitably tested to ensure quality, reliability and a high degree of conformity to International standards as evidenced through our Third Party Certifications from bodies like UL, Intertek, Emtex etc. A detailed list of certifications and standards are mentioned in our Product Datasheets and through our Distributors for verification.

CERTIFICATIONS



Intertek

3533 US Route 11
Corland, New York 13045 USA
Phone Number: (800) 345-3851
Fax Number: (807) 758-6637
Web: www.intertek.com

ETL Verified Certificate of Conformance Number: 104430597CRT-001a

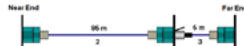
On the basis of the tests undertaken, the sample(s) of the below product have been found to comply with the essential requirements of the referenced specifications at the time the tests were carried out.

Rendered to:

ExTell Systems LLC
3901 , NW, 79th AVE
SUITE 245#1000
Miami, FL 33166 United States
www.extellsystems.com

Contact: Mr. Graham Matthew

Product Tested:
3-Connector Permanent Link



Component ID	Manufacturer	Part Number	Description
1	ExTell Systems	EKBAUXXXXE8AXXXUL-PM	Keystone Jack / Patch Panel
2	ExTell Systems	E6AUJ13X-U	U/UTP Horizontal Cable, 85 m
3	ExTell Systems	E6AUJ14-UXXX	Equipment Cord, 5 m

Standard(s)/Specification: ANSI/TIA-568.2-D Category 6A and ISO/IEC 11801-1 Class EA with the applicable electrical transmission characteristics

Product(s) Literature May Include: ETL Verified 3-Connector Permanent Link to ANSI/TIA-568.2-D Category 6A and ISO/IEC 11801-1 Class EA, along with permanent link illustration, and parts numbers.

Continuing compliance to this specification is monitored through production testing, ongoing inspections by Intertek at the production facility and random sample testing.

Date Issued: September 21, 2020

Approved By: *Antoine Pelletier*
Antoine Pelletier, Project Engineer

This verification supersedes all previous verifications with the noted Verification/Report number(s) dated before this verification notice.

NOTE: This verification is part of the full test report(s) and should be read in conjunction with it.

This verification is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement. In any case, Intertek is not liable for any damage, including consequential damage, arising from the use of this verification. Only the Client is authorized to copy or distribute this verification. Any use of this material other than as set forth herein for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results referenced from this verification are relevant only to the sample tested. This Verification by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.



Intertek

3533 US Route 11
Corland, New York 13045 USA
Phone Number: (800) 345-3851
Fax Number: (807) 758-6637
Web: www.intertek.com

ETL Verified Certificate of Conformance Number: 104430597CRT-001b

On the basis of the tests undertaken, the sample(s) of the below product have been found to comply with the essential requirements of the referenced specifications at the time the tests were carried out.

Rendered to:

ExTell Systems LLC
3901 , NW, 79th AVE
SUITE 245#1000
Miami, FL 33166 United States
www.extellsystems.com

Contact: Mr. Graham Matthew

Product Tested:
4-Connector Channel



Component ID	Manufacturer	Part Number	Description
1, 8	ExTell Systems	E6XUVI4-UXXX	Equipment Cord
2	ExTell Systems	EK8XXUXXX	Wall Outlet
3	ExTell Systems	E6XUVI3X-U	Horizontal Cable
4	ExTell Systems	E6XXUXXL-PM	110 Block
5, 7	ExTell Systems	E6XXUXXU-PM	Patch Panel
6	ExTell Systems	E6XUVI4-UXXX	Equipment Cord

Standard(s)/Specification: ANSI/TIA-568.2-D Category 6 with the applicable electrical transmission characteristics

Product(s) Literature May Include: ETL Verified 4-Connector Channel to ANSI/TIA-568.2-D Category 6, along with channel illustration, and parts numbers.

Continuing compliance to this specification is monitored through production testing, ongoing inspections by Intertek at the production facility and random sample testing.

Date Issued: September 21, 2020

Approved By: *Antoine Pelletier*
Antoine Pelletier, Project Engineer

This verification supersedes all previous verifications with the noted Verification/Report number(s) dated before this verification notice.

NOTE: This verification is part of the full test report(s) and should be read in conjunction with it.

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HO/EPN/790805/20
October 12, 2020

M/s. ExTell Systems
P.O. Box. 29234
Ras Al Khaima, UAE

APPROVAL OF MATERIAL FOR FTTH SYSTEM - EXTELL SYSTEMS

Dear Mr. Hadi Sarkar

Reference is made to your application for Product Approval. We are pleased to inform that the following items are approved for deployment in FTTH Network as specified by the manufacturer, based on the inspection of sample and test certificates provided. Etisalat do not undertake any responsibility towards any damage or hazard caused due to the use of this product.

Sl. No.	EPN No.	Product Description	Supplier	Manufacturer
1	790805-1	CAT6 UTP cable	Extell Systems	Extell Systems
2	790805-2	CAT6 UTP Patch cord	Extell Systems	Extell Systems
3	790805-3	CAT6 Keystone Jack	Extell Systems	Extell Systems
4	790805-4	CAT6 Patch Panel	Extell Systems	Extell Systems

Kindly note that this approval is valid for a period of six months from today. Any misuse of this approval for promoting, supplying or installing counterfeit or inferior product will lead to forfeiture of this approval, legal action or both.

Stamped specification sheets are attached for your reference and further correspondence.

Best Regards

Saeed Ali Saad Risharhan
Saeed Ali Saad Risharhan
Director - DS7/D6/HS
Etisalat Head Office

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HO/EPN/790805/21
January 3, 2021

M/s. ExTell Systems
P.O. Box. 29234
Ras Al Khaima, UAE

APPROVAL OF MATERIAL FOR FTTH SYSTEM - EXTELL SYSTEMS

Dear Mr. Hadi Sarkar

Reference is made to your application for Product Approval. We are pleased to inform that the following items are approved for deployment in FTTH Network subject to prevailing Etisalat and TRR Guidelines. This is issued based on the technical specifications stated by the manufacturer, inspection of sample and test certificates provided. Etisalat do not undertake any responsibility towards any damage or hazard caused due to the deployment of these products.

Sl. No.	EPN No.	Product Description	Supplier	Manufacturer
1	790806-1	CAT6A UTP Cable	Extell Systems	Extell Systems
2	790806-2	CAT6A Patch Cord	Extell Systems	Extell Systems
3	790806-3	CAT6A Key Stone Jack	Extell Systems	Extell Systems
4	790806-4	CAT6A Patch Panel	Extell Systems	Extell Systems

Kindly note that this approval is valid for a period of six months from today. Any misuse of this approval for promoting, supplying or installing counterfeit or inferior product will lead to forfeiture of this approval, legal action or both.

Stamped specification sheets are attached for your reference and further correspondence.

Best Regards

Rhudilla Ribanna
Rhudilla Ribanna
Director - DS7/HS
Etisalat Head Office

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COPPER NETWORKING SYSTEMS

• —————
High quality pure copper products developed for long life and superior performance



CAT6 CABLES

CATEGORY 6, U/UTP NETWORK CABLE 23AWG, PVC

Copper Networking Systems • Pure Copper • 250MHz

Product ID
E6XUVI31-U

 Default Cable Color
Blue PVC Jacket

Available in all Colors
Built to Order



ExTell CAT6 Networking Cables are High Quality Pure Copper Networking Cables. CAT6 U/UTP is a 4 Pair Unshielded Cables separated by High Density PE insulation spline surrounded by a PVC Jacket.

Designed for Indoor Applications, ExTell CAT6 U/UTP Cables provide flawless Ethernet connectivity while ensuring that the requirements for VoIP, Security Cameras, Voice, Video Conferencing etc are consistently met.

Features

1G
1G

Cu
Pure Copper

STANDARDS & APPLICATION

- EN50288-5-1
- ANSI/TIA/EIA-568-5-2000
- UL 444
- EN 55032
- EN 55035
- Frequency: 250 MHz
- ISO/IEC 11801:2011 (Ed 2.2) Class E

ELECTRICAL PROPERTIES

Resistance	7.0Ω/100m
Unbalance Resistance of pair	≤ 2%
Unbalance Resistance of pairs	≤ 4%
Dielectric of Conductors	DC1.0kV * 1min
Dielectric conductor to Ground	/
Insulation Resistance 20°C 500V	≥ 5000 MΩ.KM
Mutual Capacitance of a Pair	≤ 5.6 pF/100m
Pair to Ground Unbalance Capacitance	/

CATEGORY 6, U/UTP NETWORK CABLE 23AWG, PVC

Copper Networking Systems • Pure Copper • 250MHz

PHYSICAL PROPERTIES

Material		No Aging		Aged			
		Elongation	Tensile Strength	Elongation & Rate of Change		Tensile Strength & Rate of Change	
		(%)	(Mpa)	(%)	(%)	(Mpa)	(%)
Insulation	HDPE	≥ 300	≥ 16	/	/	/	/
	MDPE	≥ 300	≥ 12	/	/	/	/
	PE	≥ 200	≥ 16	/	/	/	/
Jacket	LSZH	≥ 125	≥ 10	≥ 100	-30~+30	≥ 8	-30~+30
	PVC	≥ 286	≥ 19.2	≥ 250	13	≥ 20.1	-5
	PE	≥ 250	≥ 20	≥ 200	-20~+20	≥ 16	-20~+20

CABLE STRUCTURE

Conductor	Material	Diameter					
	OFC	23AWG 0.56mm					
Insulation	Material	Diameter				Thickness	
	HDPE	1.0mm				0.18mm	
Twisted Pair	Lay Length	1	12mm	Color of Each Pair	1	White-Blue / Blue	
		2	13mm		2	White-Orange / Orange	
		3	16mm		3	White-Green / Green	
		4	20mm		4	White-Brown / Brown	
Separate	YES						
Mylar Tape	NO						
Drain Wire	NO						
Shielding	NO						
Rip Cord	YES						
Sheath	Material	Diameter				Thickness	
	PVC/LSZH/PE	6.1 ± 0.2mm				0.6mm	

CATEGORY 6, U/UTP NETWORK CABLE 23AWG, PVC

Copper Networking Systems • Pure Copper • 250MHz

TRANSMISSION PERFORMANCE

Frequency	Phase Delay T	Phase Delay Skew ΔT	Insertion Loss IL	TCL	Near End Crosstalk Loss NEXT	Power Sum NEXT PS NEXT	ACR-F	PS ACR-F	Fitted Characteristic Impedance Zc		Characteristic Impedance Zcm		Return Loss RL	Structure Return Loss SRL
									Max. m Ω /m	Min. m Ω /m	Max. m Ω /m	Min. m Ω /m		
MHz	\leq dB /100m	\leq ns /100m	\leq dB /100m	dB	\geq dB /100m	\geq dB /100m	\geq dB /100m	\geq dB /100m	Max. m Ω /m	Min. m Ω /m	Max. m Ω /m	Min. m Ω /m	\geq dB	\geq dB
1	570	45	2	50	74.3	72.3	68	65	113	95	115	85	20	30
4	552	45	3.8	44	65.3	63.3	56	53	109	95	115	85	23	30
8	547	45	5.3	41	60.8	58.8	49.9	46.9	107.8	95	115	85	24.5	30
10	545	45	6	39	59.3	57.3	48	45	107.5	95	115	85	25	30
16	543	45	7.6	38	56.2	54.2	43.9	40.9	107	95	115	85	25	30
20	542	45	8.5	37	54.8	52.8	42	39	106.8	95	115	85	25	30
25	541	45	9.5	36	53.3	51.3	40	37	106.6	95	115	85	24.3	29
31.25	540	45	10.7	35.1	51.9	49.9	38.1	35.1	106.4	95	115	85	23.6	28.1
62.5	539	45	15.4	32	47.4	54.4	32.1	28.8	106	95	115	85	21.5	25.1
100	538	45	19.8	30	44.3	42.3	28	25	105.8	95	115	85	20.1	23
200	537	45	29	27	39.8	37.8	22	19	105.6	95	115	85	18	20
250	536	45	32.8	26	38.3	36.3	20	17	105.5	95	115	85	17.3	19

ORDERING INFORMATION

E6XUVI31-U	Category 6, UTP Indoor Installation Cable, 23 AWG, 305 m box, PVC
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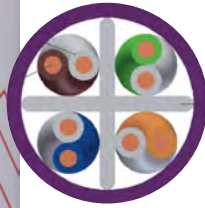
CATEGORY 6, U/UTP NETWORK CABLE 23AWG, LSZH

Copper Networking Systems • Pure Copper • 250MHz

Product ID
E6XULI31-U

 Default Cable Color
Blue LSZH Jacket

Available in all Colors
Built to Order



ExTell CAT6 Networking Cables are High Quality Pure Copper Networking Cables. CAT6 U/UTP is a 4 Pair Unshielded Cables separated by High Density PE Insulation Spline surrounded by a LSZH Jacket.

Designed for Indoor Applications, ExTell CAT6 U/UTP Cables provide flawless Ethernet connectivity while ensuring that the requirements for VoIP, Security Cameras, Voice, Video Conferencing etc are consistently met.

Features

1G
1G

Cu
Pure Copper


Low Smoke

STANDARDS & APPLICATION

- EN50288-5-1
- ANSI/TIA/EIA-568-5-2000
- UL 444
- EN 55032
- EN 55035
- Frequency: 250 MHz
- ISO/IEC 11801:2011 (Ed 2.2) Class E

ELECTRICAL PROPERTIES

Resistance	7.0Ω/100m
Unbalance Resistance of pair	≤ 2%
Unbalance Resistance of pairs	≤ 4%
Dielectric of Conductors	DC1.0kV * 1min
Dielectric conductor to Ground	/
Insulation Resistance 20°C 500V	≥ 5000 MΩ.KM
Mutual Capacitance of a Pair	≤ 5.6 pF/100m
Pair to Ground Unbalance Capacitance	/

CATEGORY 6, U/UTP NETWORK CABLE 23AWG, LSZH

Copper Networking Systems • Pure Copper • 250MHz

PHYSICAL PROPERTIES

Material		No Aging		Aged			
		Elongation	Tensile Strength	Elongation & Rate of Change		Tensile Strength & Rate of Change	
		(%)	(Mpa)	(%)	(%)	(Mpa)	(%)
Insulation	HDPE	≥ 300	≥ 16	/	/	/	/
	MDPE	≥ 300	≥ 12	/	/	/	/
	PE	≥ 200	≥ 16	/	/	/	/
Jacket	LSZH	≥ 125	≥ 10	≥ 100	-30~+30	≥ 8	-30~+30
	PVC	≥ 286	≥ 19.2	≥ 250	13	≥ 20.1	-5
	PE	≥ 250	≥ 20	≥ 200	-20~+20	≥ 16	-20~+20

CABLE STRUCTURE

Conductor	Material	Diameter				
	OFC	23AWG 0.56mm				
Insulation	Material	Diameter			Thickness	
	HDPE	1.0mm			0.18mm	
Twisted Pair	Lay Length	1	12mm	Color of Each Pair	1	White-Blue / Blue
		2	13mm		2	White-Orange / Orange
		3	16mm		3	White-Green / Green
		4	20mm		4	White-Brown / Brown
Separate	YES					
Mylar Tape	NO					
Drain Wire	NO					
Shielding	NO					
Rip Cord	YES					
Sheath	Material	Diameter			Thickness	
	PVC/LSZH/PE	6.1 ± 0.2mm			0.6mm	

CATEGORY 6, U/UTP NETWORK CABLE 23AWG, LSZH

Copper Networking Systems • Pure Copper • 250MHz

TRANSMISSION PERFORMANCE

Frequency	Phase Delay T	Phase Delay Skew ΔT	Insertion Loss IL	TCL	Near End Crosstalk Loss NEXT	Power Sum NEXT PS NEXT	ACR-F	PS ACR-F	Fitted Characteristic Impedance Zc		Characteristic Impedance Zcm		Return Loss RL	Structure Return Loss SRL
									Max. mΩ /m	Min. mΩ /m	Max. mΩ /m	Min. mΩ /m		
MHz	≤ dB /100m	≤ ns /100m	≤ dB /100m	dB	≥ dB /100m	≥ dB /100m	≥ dB /100m	≥ dB /100m	Max. mΩ /m	Min. mΩ /m	Max. mΩ /m	Min. mΩ /m	≥ dB	≥ dB
1	570	45	2	50	74.3	72.3	68	65	113	95	115	85	20	30
4	552	45	3.8	44	65.3	63.3	56	53	109	95	115	85	23	30
8	547	45	5.3	41	60.8	58.8	49.9	46.9	107.8	95	115	85	24.5	30
10	545	45	6	39	59.3	57.3	48	45	107.5	95	115	85	25	30
16	543	45	7.6	38	56.2	54.2	43.9	40.9	107	95	115	85	25	30
20	542	45	8.5	37	54.8	52.8	42	39	106.8	95	115	85	25	30
25	541	45	9.5	36	53.3	51.3	40	37	106.6	95	115	85	24.3	29
31.25	540	45	10.7	35.1	51.9	49.9	38.1	35.1	106.4	95	115	85	23.6	28.1
62.5	539	45	15.4	32	47.4	54.4	32.1	28.8	106	95	115	85	21.5	25.1
100	538	45	19.8	30	44.3	42.3	28	25	105.8	95	115	85	20.1	23
200	537	45	29	27	39.8	37.8	22	19	105.6	95	115	85	18	20
250	536	45	32.8	26	38.3	36.3	20	17	105.5	95	115	85	17.3	19

ORDERING INFORMATION

E6XULI31-U	Category 6, UTP Indoor Installation Cable, 23 AWG, 305 m box, LSZH
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CAT6 CABLES

CATEGORY 6, F/UTP NETWORK CABLE 23AWG, PVC/LSZH

Copper Networking Systems • Pure Copper • 250MHz

Product ID
E6XUVI31-F

 Default Cable Color
Blue PVC Jacket

Available in all Colors
Built to Order



ExTell CAT6 F/UTP cable is designed for applications with high levels of Elettromagnetic Interference.

It consists of 4 pairs of unshielded twisted pair cables separated by a PE spline with an outer Aluminium foil wrapped around the cables.

Features

1G
1G

Cu
Pure Copper


Low Noise

STANDARDS & APPLICATION

- EN50288-5-1
- ANSI/TIA/EIA-568-5-2000
- UL 444
- EN 55032
- EN 55035
- Frequency: 250 MHz
- ISO/IEC 11801:2011 (Ed 2.2) Class E

ELECTRICAL PROPERTIES

Resistance	7.0Ω/100m
Unbalance Resistance of pair	≤ 2%
Unbalance Resistance of pairs	≤ 4%
Dielectric of Conductors	DC1.0kV * 1min
Dielectric conductor to Ground	DC2.5kV * 2min
Insulation Resistance 20°C 500V	≥ 5000 MΩ.KM
Mutual Capacitance of a Pair	≤ 5.6 pF/100m
Pair to Ground Unbalance Capacitance	≤160 pF/100m



CATEGORY 6, F/UTP NETWORK CABLE 23AWG, PVC/LSZH

Copper Networking Systems • Pure Copper • 250MHz

PHYSICAL PROPERTIES

Material		No Aging		Aged			
		Elongation	Tensile Strength	Elongation & Rate of Change		Tensile Strength & Rate of Change	
		(%)	(Mpa)	(%)	(%)	(Mpa)	(%)
Insulation	HDPE	≥ 300	≥ 16	/	/	/	/
	MDPE	≥ 300	≥ 12	/	/	/	/
	PE	≥ 200	≥ 10	/	/	/	/
Jacket	LSZH	≥ 125	≥ 10	≥ 100	-30~+30	≥ 8	-30~+30
	PVC	≥ 150	≥ 13.5	≥ 250	-20~+20	≥ 12.5	-20~+20
	PE	≥ 250	≥ 20	≥ 200	-20~+20	≥ 16	-20~+20

CABLE STRUCTURE

Conductor	Material	Diameter				
	OFC	23AWG 0.56mm				
Insulation	Material	Diameter			Thickness	
	HDPE	1.0mm			0.18mm	
Twisted Pair	Lay Length	1	12mm	Color of Each Pair	1	White-Blue / Blue
		2	13mm		2	White-Orange / Orange
		3	16mm		3	White-Green / Green
		4	20mm		4	White-Brown / Brown
Separate	YES					
Mylar Tape	YES					
Drain Wire	YES, Material : CCA, Diameter : 0.35mm					
Shielding	YES, Material : AL Foil, Width : 18mm					
Rip Cord	YES					
Sheath	Material	Diameter			Thickness	
	PVC/LSZH/PE	6.3±0.2mm			0.6mm	

CATEGORY 6, F/UTP NETWORK CABLE 23AWG, PVC/LSZH

Copper Networking Systems • Pure Copper • 250MHz

TRANSMISSION PERFORMANCE

Frequency MHz	Phase Delay T ≤ dB /100m	Phase Delay Skew ΔT ≤ ns /100m	Insertion Loss IL ≤ dB /100m	TCL dB	Near End Crosstalk Loss NEXT ≥ dB /100m	Power Sum NEXT PS NEXT ≥ dB /100m	ACR-F ≥ dB /100m	PS ACR-F ≥ dB /100m	Fitted Characteristic Impedance Zc		Characteristic Impedance Zcm		Return Loss RL ≥ dB	Structure Return Loss SRL ≥ dB
									Max. mΩ /m	Min. mΩ /m	Max. mΩ /m	Min. mΩ /m		
1	570	45	2	50	74.3	72.3	68	65	113	95	115	85	20	30
4	552	45	3.8	44	65.3	63.3	56	53	109	95	115	85	23	30
8	547	45	5.3	41	60.8	58.8	49.9	46.9	107.8	95	115	85	24.5	30
10	545	45	6	39	59.3	57.3	48	45	107.5	95	115	85	25	30
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25	541	45	9.5	36	53.3	51.3	40	37	106.6	95	115	85	24.3	29
31.25	540	45	10.7	35.1	51.9	49.9	38.1	35.1	106.4	95	115	85	23.6	28.1
62.5	539	45	15.4	32	47.4	54.4	32.1	28.8	106	95	115	85	21.5	25.1
100	538	45	19.8	30	44.3	42.3	28	25	105.8	95	115	85	20.1	23
200	537	45	29	27	39.8	37.8	22	19	105.6	95	115	85	18	20
250	536	45	32.8	26	38.3	36.3	20	17	105.5	95	115	85	17.3	19

ORDERING INFORMATION

E6XUVI31-F	Category 6, F/UTP Installation Cable 23AWG, 305 m box, PVC	E6XULI31-F	Category 6, F/UTP Installation Cable 23AWG, 305 m box, LSZH
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CATEGORY 6, SF/UTP NETWORK CABLE 23AWG, PVC/LSZH

Copper Networking Systems • Pure Copper • 250MHz

Product ID
E6XUVI31-SF

 Default Cable Color
Blue PVC Jacket

Available in all Colors
Built to Order



ExTell CAT6 SF/UTP cable is designed for applications with high levels of Elettromagnetic Interference.

It consists of 4 pairs of unshielded twisted pair cables separated by a PE spline with an outer Aluminium foil wrapped around the cables and Aluminium braiding for external noise reduction and reduced EMI.

Features



1G



Pure Copper



Low Noise

STANDARDS & APPLICATION

- EN50288-5-1
- ANSI/TIA/EIA-568-5-2000
- UL 444
- EN 55032
- EN 55035
- Frequency: 250 MHz
- ISO/IEC 11801:2011 (Ed 2.2) Class E

ELECTRICAL PROPERTIES

Resistance	7.0Ω/100m
Unbalance Resistance of pair	≤ 2%
Unbalance Resistance of pairs	≤ 4%
Dielectric of Conductors	DC1.0kV * 1min
Dielectric conductor to Ground	DC2.5kV * 2min
Insulation Resistance 20°C 500V	≥ 5000 MΩ.KM
Mutual Capacitance of a Pair	≤ 5.6 pF/100m
Pair to Ground Unbalance Capacitance	≤160 pF/100m

CATEGORY 6, SF/UTP NETWORK CABLE 23AWG, PVC/LSZH

Copper Networking Systems • Pure Copper • 250MHz

PHYSICAL PROPERTIES

Material		No Aging		Aged			
		Elongation	Tensile Strength	Elongation & Rate of Change		Tensile Strength & Rate of Change	
		(%)	(Mpa)	(%)	(%)	(Mpa)	(%)
Insulation	HDPE	≥ 300	≥ 16	/	/	/	/
	MDPE	≥ 300	≥ 12	/	/	/	/
	PE	≥ 200	≥ 10	/	/	/	/
Jacket	LSZH	≥ 125	≥ 10	≥ 100	-30~+30	≥ 8	-30~+30
	PVC	≥ 150	≥ 13.5	≥ 250	-20~+20	≥ 12.5	-20~+20
	PE	≥ 250	≥ 20	≥ 200	-20~+20	≥ 16	-20~+20

CABLE STRUCTURE

Conductor	Material	Diameter					
	OFC	23AWG 0.56mm					
Insulation	Material	Diameter				Thickness	
	HDPE	1.0mm				0.18mm	
Twisted Pair	Lay Length	1	12mm	Color of Each Pair	1	White-Blue / Blue	
		2	13mm		2	White-Orange / Orange	
		3	16mm		3	White-Green / Green	
		4	20mm		4	White-Brown / Brown	
Separate	YES						
Mylar Tape	YES						
Drain Wire	NO						
Shielding 1	Foil, Material : AL Foil, Width : 18mm						
Shielding 2	Braiding, Material : ALMG, Size : 96/0.12MM						
Rip Cord	YES						
Sheath	Material	Diameter				Thickness	
	PVC/LSZH/PE	6.6±0.2mm				0.6mm	

CATEGORY 6, SF/UTP NETWORK CABLE 23AWG, PVC/LSZH

Copper Networking Systems • Pure Copper • 250MHz

TRANSMISSION PERFORMANCE

Frequency	Phase Delay T	Phase Delay Skew ΔT	Insertion Loss IL	TCL	Near End Crosstalk Loss NEXT	Power Sum NEXT PS NEXT	ACR-F	PS ACR-F	Fitted Characteristic Impedance Zc		Characteristic Impedance Zcm		Return Loss RL	Structure Return Loss SRL
									Max. mΩ /m	Min. mΩ /m	Max. mΩ /m	Min. mΩ /m		
MHz	≤ dB /100m	≤ ns /100m	≤ dB /100m	dB	≥ dB /100m	≥ dB /100m	≥ dB /100m	≥ dB /100m	Max. mΩ /m	Min. mΩ /m	Max. mΩ /m	Min. mΩ /m	≥ dB	≥ dB
1	570	45	2	50	74.3	72.3	68	65	113	95	115	85	20	30
4	552	45	3.8	44	65.3	63.3	56	53	109	95	115	85	23	30
8	547	45	5.3	41	60.8	58.8	49.9	46.9	107.8	95	115	85	24.5	30
10	545	45	6	39	59.3	57.3	48	45	107.5	95	115	85	25	30
16	543	45	7.6	38	56.2	54.2	43.9	40.9	107	95	115	85	25	30
20	542	45	8.5	37	54.8	52.8	42	39	106.8	95	115	85	25	30
25	541	45	9.5	36	53.3	51.3	40	37	106.6	95	115	85	24.3	29
31.25	540	45	10.7	35.1	51.9	49.9	38.1	35.1	106.4	95	115	85	23.6	28.1
62.5	539	45	15.4	32	47.4	54.4	32.1	28.8	106	95	115	85	21.5	25.1
100	538	45	19.8	30	44.3	42.3	28	25	105.8	95	115	85	20.1	23
200	537	45	29	27	39.8	37.8	22	19	105.6	95	115	85	18	20
250	536	45	32.8	26	38.3	36.3	20	17	105.5	95	115	85	17.3	19

ORDERING INFORMATION

E6XUVI31-SF	Category 6, SF/UTP Installation Cable 23AWG, 305 m box, PVC	E6XULI31-SF	Category 6, SF/UTP Installation Cable 23AWG, 305 m box, LSZH
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CATEGORY 6, U/UTP OUTDOOR NETWORK CABLE 23AWG, PE

Copper Networking Systems • Pure Copper • 250MHz • UV Resistant

Product ID
E6XUP033-U

● Default Cable Color
Black PE Jacket

Available in all Colors
Built to Order



ExTell CAT6 UTP PE Cable is designed for outdoor applications and is protected by a PE outer sheath which is UV Resistant.

It consists of 4 pairs of unshielded twisted pair cables separated by a PE spline with an outer PE sheath around the cables and is perfect for outdoor CAT6 requirements.

Features

1G
1G

Cu
Pure Copper

UV Resistant

STANDARDS & APPLICATION

- EN50288-5-1
- ANSI/TIA/EIA-568-5-2000
- UL 444
- EN 55032
- EN 55035
- Frequency: 250 MHz
- ISO/IEC 11801:2011 (Ed 2.2) Class E

ELECTRICAL PROPERTIES

Resistance	7.0Ω/100m
Unbalance Resistance of pair	≤ 2%
Unbalance Resistance of pairs	≤ 4%
Dielectric of Conductors	DC1.0kV * 1min
Dielectric conductor to Ground	/
Insulation Resistance 20°C 500V	≥ 5000 MΩ.KM
Mutual Capacitance of a Pair	≤ 5.6 pF/100m
Pair to Ground Unbalance Capacitance	/

CATEGORY 6, U/UTP OUTDOOR NETWORK CABLE 23AWG, PE

Copper Networking Systems • Pure Copper • 250MHz • UV Resistant

PHYSICAL PROPERTIES

Material		No Aging		Aged			
		Elongation	Tensile Strength	Elongation & Rate of Change		Tensile Strength & Rate of Change	
		(%)	(Mpa)	(%)	(%)	(Mpa)	(%)
Insulation	HDPE	≥ 300	≥ 16	/	/	/	/
	MDPE	≥ 300	≥ 12	/	/	/	/
	PE	≥ 200	≥ 16	/	/	/	/
Jacket	LSZH	≥ 125	≥ 10	≥ 100	-30~+30	≥ 8	-30~+30
	PVC	≥ 286	≥ 19.2	≥ 250	13	≥ 20.1	-5
	PE	≥ 250	≥ 20	≥ 200	-20~+20	≥ 16	-20~+20

CABLE STRUCTURE

Conductor	Material	Diameter					
	OFC	23AWG 0.56mm					
Insulation	Material	Diameter				Thickness	
	HDPE	1.0mm				0.18mm	
Twisted Pair	Lay Length	1	12mm	Color of Each Pair	1	White-Blue / Blue	
		2	13mm		2	White-Orange / Orange	
		3	16mm		3	White-Green / Green	
		4	20mm		4	White-Brown / Brown	
Separate	YES						
Mylar Tape	NO						
Drain Wire	NO						
Shielding	NO						
Rip Cord	YES						
Sheath	Material	Diameter				Thickness	
	PVC/LSZH/PE	6.1 ± 0.2mm				0.6mm	

CATEGORY 6, U/UTP OUTDOOR NETWORK CABLE 23AWG, PE

Copper Networking Systems • Pure Copper • 250MHz • UV Resistant

TRANSMISSION PERFORMANCE

Frequency	Phase Delay T	Phase Delay Skew ΔT	Insertion Loss IL	TCL	Near End Crosstalk Loss NEXT	Power Sum NEXT PS NEXT	ACR-F	PS ACR-F	Fitted Characteristic Impedance Zc		Characteristic Impedance Zcm		Return Loss RL	Structure Return Loss SRL
									Max. mΩ /m	Min. mΩ /m	Max. mΩ /m	Min. mΩ /m		
MHz	≤ dB /100m	≤ ns /100m	≤ dB /100m	dB	≥ dB /100m	≥ dB /100m	≥ dB /100m	≥ dB /100m	Max. mΩ /m	Min. mΩ /m	Max. mΩ /m	Min. mΩ /m	≥ dB	≥ dB
1	570	45	2	50	74.3	72.3	68	65	113	95	115	85	20	30
4	552	45	3.8	44	65.3	63.3	56	53	109	95	115	85	23	30
8	547	45	5.3	41	60.8	58.8	49.9	46.9	107.8	95	115	85	24.5	30
10	545	45	6	39	59.3	57.3	48	45	107.5	95	115	85	25	30
16	543	45	7.6	38	56.2	54.2	43.9	40.9	107	95	115	85	25	30
20	542	45	8.5	37	54.8	52.8	42	39	106.8	95	115	85	25	30
25	541	45	9.5	36	53.3	51.3	40	37	106.6	95	115	85	24.3	29
31.25	540	45	10.7	35.1	51.9	49.9	38.1	35.1	106.4	95	115	85	23.6	28.1
62.5	539	45	15.4	32	47.4	54.4	32.1	28.8	106	95	115	85	21.5	25.1
100	538	45	19.8	30	44.3	42.3	28	25	105.8	95	115	85	20.1	23
200	537	45	29	27	39.8	37.8	22	19	105.6	95	115	85	18	20
250	536	45	32.8	26	38.3	36.3	20	17	105.5	95	115	85	17.3	19

ORDERING INFORMATION

E6XUPO33-U	Category 6, UTP Outdoor Cable, 23 AWG, 305 m box, PE
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CAT6 CABLES

CATEGORY 6, U/UTP NETWORK CABLE 24AWG, PVC

Copper Networking Systems • Pure Copper • 250MHz

Product ID
E6XUVI42-U

● Default Cable Color
Gray PVC Jacket

Available in all Colors
Built to Order



ExTell CAT6 Networking Cables are High Quality Pure Copper Networking Cables. CAT6 U/UTP 24AWG is a 4 Pair Unshielded Cables separated by High Density PE Insulation Spine surrounded by a PVC Jacket.

Designed for short distance Indoor Applications, ExTell CAT6 U/UTP 24AWG Cables provide flawless Ethernet connectivity while ensuring that the requirements for VoIP, Security Cameras, Voice etc are consistently met.

Features

1G

1G

Cu

Pure Copper

STANDARDS & APPLICATION

- EN50288-5-1
- ANSI/TIA/EIA-568-5-2000
- UL 444
- EN 55032
- EN 55035
- Frequency: 250 MHz
- ISO/IEC 11801:2011 (Ed 2.2) Class E

ELECTRICAL PROPERTIES

Conductor Resistance	93.8Ω/1000 mtr @20°C Max
Resistance Unbalance	5% Max
Mutual Capacitance	5.6 nf/100 mtr Max
NVP	69%
Impedance	100 ± 15% Ω
Worst Cable Skew	45ns/100 mtr

PHYSICAL PROPERTIES

Installation Temperature	0 to +50°C
Storage Temperature	-20 to +75°C
Operating Temperature	-20 to +60°C

CATEGORY 6, U/UTP NETWORK CABLE 24AWG, PVC

Copper Networking Systems • Pure Copper • 250MHz

CONSTRUCTION

Conductor	Solid Bare Electrolytic Grade Copper
Nominal Conductor Diameter	24 AWG (0.510 ± 0.015 mm)
Insulation	Polyethylene (HDPE)
Pairing	Twisted into Two core
No.of Pair	4, Each pair Twisted

COLOR CODE

Pair #1	Orange-White with Orange
Pair #2	Brown-White with Brown
Pair #3	Blue-White with Blue
Pair #4	Green-White with Green
Outer Sheath material	PVC
Colour of Sheath	Grey
Approximate OD	5.7 ± 0.30 mm
Rip Cord	YES
Sequential Marking	At Every Meter
Cross Filler	HDPE
Temperature Rating	-20 to + 60°C
Packing	305 Mtrs in a Box

CATEGORY 6, U/UTP NETWORK CABLE 24AWG, PVC

Copper Networking Systems • Pure Copper • 250MHz

TRANSMISSION PERFORMANCE

Frequency	Attenuation	Near End Crosstalk Loss NEXT	Power Sum NEXT PS NEXT	ACR-F	PS ACR-F	Return Loss RL
MHz	≤ dB/100m	≥ dB/100m	≥ dB/100m	≥ dB/100m	≥ dB/100m	≥ dB
1	2.1	65	62	63.3	60.3	19
4	4	63	60.5	51.2	48.2	19
8	5.7	58.2	55.6	45.2	42.2	19
10	6.3	56.6	54	43.3	40.3	19
16	8	53.2	50.6	39.2	36.2	18
20	9	51.6	49	37.2	34.2	17.5
25	10.1	50	47.3	35.3	32.3	17
31.25	11.4	48.4	45.7	33.4	30.4	16.5
62.5	16.5	43.4	40.6	27.3	24.3	14
100	21.3	39.9	37.1	23.3	20.3	12
200	31.5	34.8	31.9	17.2	14.2	9
250	35.9	33.1	30.2	15.3	12.3	8

ORDERING INFORMATION

E6XUVI42-U	Category 6, U/UTP Installation Cable 24 AWG, 305 m box, PVC
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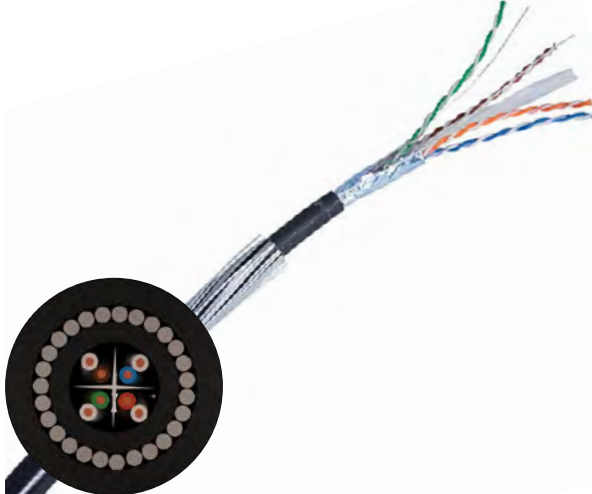
CATEGORY 6, SWA/UTP NETWORK CABLE 23AWG, STEEL WIRE ARMORED

Copper Networking Systems • Pure Copper • High Quality • High Protection

Product ID
E6XUP033-SWA

Default Cable Color
Black PE Jacket

Available in all Colors
Built to Order



ExTell CAT6 Networking Cables are High Quality Pure Copper Networking Cables. CAT6 U/UTP 23AWG SWA Network Cable is a 4 Pair Unshielded Cables separated by High Density PE Insulation Spine surrounded by double sheath of PVC/PE/LSZH with Armor of Helical Galvanized Steel Wire.

Designed for heavy duty applications with strong mechanical protection, ExTell CAT6 U/UTP 23AWG SWA Network Cable provide flawless signal connectivity while ensuring high degree of protection.

Features

- 
UV Resistant
- 
Tough Exterior
- 
Industrial Applications

STANDARDS & APPLICATION

- EN50288-5-1
- ANSI/TIA/EIA-568-5-2000
- UL 444
- EN 55032
- EN 55035
- Frequency: 250 MHz
- ISO/IEC 11801:2011 (Ed 2.2) Class E

ELECTRICAL PROPERTIES

Max. Conductor Resistance at 20°C	< 7.5 CI/100m
Max. Resistance Unbalanced	≤ 2.5%
Nominal Impedence	100 + 15 Q (1-100MHz), 100 + 20 Q (100-250MHz), 100 + 25 U (250-500MHz)
Insulation Resistance 20°C 500V	≥ 5000 MΩ.KM
Mutual Capacitance of a Pair	≤ 5.6 pF/100m
Capacitance Unbalanced to Earth	< 330 pF/100m
NVP	68.5%
Max. Delay Skew	fi 45 nS/100m
Test Voltage	700V(DC) for 1 min

CATEGORY 6, SWA/UTP NETWORK CABLE 23AWG, STEEL WIRE ARMORED

Copper Networking Systems • Pure Copper • High Quality • High Protection

TRANSMISSION PERFORMANCE

Frequency	Attenuation	Near End Crosstalk Loss NEXT	Power Sum NEXT PS NEXT	ACR-F	PS ACR-F	Return Loss RL
MHz	≤ dB/100m	≥ dB/100m	≥ dB/100m	≥ dB/100m	≥ dB/100m	≥ dB
1	2.03	74.3	72.3	67.8	64.8	20
4	3.86	65.3	63.3	55.8	52.8	23
10	5.95	59.3	57.3	47.8	44.8	25
16	7.55	56.2	54.2	43.7	40.7	25
20	8.47	54.8	52.8	41.8	38.8	25
31.25	10.67	51.9	49.9	37.9	34.9	23.64
62.5	15.38	47.4	45.4	31.9	28.9	21.54
100	19.8	44.3	41.3	27.8	24.8	20.11
200	28.98	39.8	37.8	21.8	18.8	18
250	32.85	38.3	36.3	19.9	16.9	17.32

ORDERING INFORMATION

E6XUPO33-SWA	ExTell Category 6 SWA/UTP Installation Cable 23AWG, Steel Wire Armored, Black
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CATEGORY 6, U/UTP ELEVATOR CABLE 2 X STEEL WIRE ELASTIC, PVC

Copper Networking Systems • Pure Copper • 250MHz

Product ID
E6XUVO33-L

● Default Cable Color
Black PVC Jacket

Available in all Colors
Built to Order



CAT6 Elevator cable is perfectly suited for Indoor Elevator applications. With a Flexible PVC Jacket and 2 Steel Wire for support, the CAT6 Elevator cable is long lasting and has stranded copper cables in the form of unshielded twisted pair.

Features

1G

1G

Cu

Pure Copper

STANDARDS & APPLICATION

- EN50288-5-1
- ANSI/TIA/EIA-568-5-2000
- UL 444
- EN 55032
- EN 55035
- Frequency: 250 MHz
- ISO/IEC 11801:2011 (Ed 2.2) Class E

ELECTRICAL PROPERTIES

Resistance	7.0Ω/100m
Unbalance Resistance of pair	≤ 2%
Unbalance Resistance of pairs	≤ 4%
Dielectric of Conductors	DC1.0kV * 1min
Dielectric conductor to Ground	/
Insulation Resistance 20°C 500V	≥ 5000 MΩ.KM
Mutual Capacitance of a Pair	≤ 5.6 pF/100m
Pair to Ground Unbalance Capacitance	/



CATEGORY 6, U/UTP ELEVATOR CABLE 2 X STEEL WIRE ELASTIC, PVC

Copper Networking Systems • Pure Copper • 250MHz

PHYSICAL PROPERTIES

Material		No Aging		Aged			
		Elongation	Tensile Strength	Elongation & Rate of Change		Tensile Strength & Rate of Change	
		(%)	(Mpa)	(%)	(%)	(Mpa)	(%)
Insulation	HDPE	≥ 300	≥ 16	/	/	/	/
	MDPE	≥ 300	≥ 12	/	/	/	/
	PE	≥ 200	≥ 16	/	/	/	/
Jacket	LSZH	≥ 125	≥ 10	≥ 100	-30~+30	≥ 8	-30~+30
	PVC	≥ 286	≥ 19.2	≥ 250	-20~+20	≥ 12.5	-20~+20
	PE	≥ 250	≥ 20	≥ 200	-20~+20	≥ 16	-20~+20

CABLE STRUCTURE

LAN CABLE PART

Conductor	Material	Diameter					
	OFC	23AWG 0.56mm					
Insulation	Material	Diameter				Thickness	
	HDPE	1.0mm				0.18mm	
Twisted Pair	Lay Length	1	12mm	Color of Each Pair	1	White-Blue / Blue	
		2	13mm		2	White-Orange / Orange	
		3	16mm		3	White-Green / Green	
		4	20mm		4	White-Brown / Brown	
Separate	YES						
Mylar Tape	NO						
Drain Wire	NO						
Shielding	NO						
Rip Cord	YES						

MESSAGE PART

Conductor	Material	Diameter				
	Steel	19/0.2mm				
Sheath	Material	Diameter				Thickness
	PVC/LSZH/PE	6.5*13.5±0.2mm				0.6mm

CATEGORY 6, U/UTP ELEVATOR CABLE 2 X STEEL WIRE ELASTIC, PVC

Copper Networking Systems • Pure Copper • 250MHz

TRANSMISSION PERFORMANCE

Frequency	Phase Delay T	Phase Delay Skew ΔT	Insertion Loss IL	TCL	Near End Crosstalk Loss NEXT	Power Sum NEXT PS NEXT	ACR-F	PS ACR-F	Fitted Characteristic Impedance Zc		Characteristic Impedance Zcm		Return Loss RL	Structure Return Loss SRL
									Max. mΩ /m	Min. mΩ /m	Max. mΩ /m	Min. mΩ /m		
MHz	≤ dB /100m	≤ ns /100m	≤ dB /100m	dB	≥ dB /100m	≥ dB /100m	≥ dB /100m	≥ dB /100m	Max. mΩ /m	Min. mΩ /m	Max. mΩ /m	Min. mΩ /m	≥ dB	≥ dB
1	570	45	2	50	74.3	72.3	68	65	113	95	115	85	20	30
4	552	45	3.8	44	65.3	63.3	56	53	109	95	115	85	23	30
8	547	45	5.3	41	60.8	58.8	49.9	46.9	107.8	95	115	85	24.5	30
10	545	45	6	39	59.3	57.3	48	45	107.5	95	115	85	25	30
16	543	45	7.6	38	56.2	54.2	43.9	40.9	107	95	115	85	25	30
20	542	45	8.5	37	54.8	52.8	42	39	106.8	95	115	85	25	30
25	541	45	9.5	36	53.3	51.3	40	37	106.6	95	115	85	24.3	29
31.25	540	45	10.7	35.1	51.9	49.9	38.1	35.1	106.4	95	115	85	23.6	28.1
62.5	539	45	15.4	32	47.4	54.4	32.1	28.8	106	95	115	85	21.5	25.1
100	538	45	19.8	30	44.3	42.3	28	25	105.8	95	115	85	20.1	23
200	537	45	29	27	39.8	37.8	22	19	105.6	95	115	85	18	20
250	536	45	32.8	26	38.3	36.3	20	17	105.5	95	115	85	17.3	19

ORDERING INFORMATION

E6XUVO33-L	Category 6, U/UTP Elevator cable 305 M box, 2 x Steel Wire Elastic, PVC
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CAT6A CABLES

CATEGORY 6A, U/UTP NETWORK CABLE 23AWG, PVC

Copper Networking Systems • Pure Copper • 500MHz

Product ID
E6AUVI31-U

 Default Cable Color
Blue PVC Jacket

Available in all Colors
Built to Order



ExTell CAT6A Networking Cables are High Quality Pure Copper Networking Cables. CAT6A U/UTP 23AWG is a 4 Pair Unshielded Cables separated by High Density PE insulation spline surrounded by a PVC Jacket.

Designed for short distance Indoor Applications, ExTell CAT6A U/UTP 23AWG Cables provide flawless Ethernet connectivity while ensuring that the requirements for high frequency data applications are consistently met.

Features

10G

10G

Cu

Pure Copper

STANDARDS & APPLICATION

- IEEE 802.3an:2006 (10GBASE-T)
- IEC 61156-5:2002 Category 6A
- ANSI/TIA-568-C.2:2009 Category 6A
- ISO/IEC-11801, 2nd Edition Class EA
- LSZH: IEC 60332-1, IEC 60754, IEC 61034

ELECTRICAL PROPERTIES

Resistance	6.5Ω/100m
Unbalance Resistance of pair	≤ 2%
Unbalance Resistance of pairs	≤ 4%
Dielectric of Conductors	DC1.0kV * 1min
Dielectric conductor to Ground	/
Insulation Resistance 20°C 500V	≥ 5000 MΩ.KM
Mutual Capacitance of a Pair	≤ 5.6 pF/100m
Pair to Ground Unbalance Capacitance	/



CATEGORY 6A, U/UTP NETWORK CABLE 23AWG, PVC

Copper Networking Systems • Pure Copper • 500MHz

PHYSICAL PROPERTIES

Material		No Aging		Aged			
		Elongation	Tensile Strength	Elongation & Rate of Change		Tensile Strength & Rate of Change	
		(%)	(Mpa)	(%)	(%)	(Mpa)	(%)
Insulation	HDPE	≥ 300	≥ 16	/	/	/	/
	MDPE	≥ 300	≥ 12	/	/	/	/
	PE	≥ 200	≥ 16	/	/	/	/
Jacket	LSZH	≥ 125	≥ 10	≥ 100	-30~+30	≥ 8	-30~+30
	PVC	≥ 286	≥ 19.2	≥ 250	-20~+20	≥ 12.5	-20~+20
	PE	≥ 250	≥ 20	≥ 200	-20~+20	≥ 16	-20~+20

CABLE STRUCTURE

Conductor	Material	Diameter				
	OFC	23AWG 0.58mm				
Insulation	Material	Diameter			Thickness	
	HDPE	1.2mm			0.18mm	
Twisted Pair	Lay Length	1	12mm	Color of Each Pair	1	White-Blue / Blue
		2	13mm		2	White-Orange / Orange
		3	16mm		3	White-Green / Green
		4	20mm		4	White-Brown / Brown
Separate	YES					
Mylar Tape	NO					
Drain Wire	NO					
Shielding	NO					
Rip Cord	YES					
Sheath	Material	Diameter			Thickness	
	PVC/LSZH/PE	6.5 ± 0.2mm			0.8mm	

CATEGORY 6A, U/UTP NETWORK CABLE 23AWG, PVC

Copper Networking Systems • Pure Copper • 500MHz

TRANSMISSION PERFORMANCE

Frequency	Phase Delay T	Phase Delay Skew ΔT	Insertion Loss IL	TCL	Near End Crosstalk Loss NEXT	Power Sum NEXT PS NEXT	Equal Level FEXT ELF-EXT	Power Sum PS ELF-EXT	Fitted Characteristic Impedance Zc		Characteristic Impedance Zcm		Return Loss RL	Structure Return Loss SRL
									Max. mΩ /m	Min. mΩ /m	Max. mΩ /m	Min. mΩ /m		
MHz	≤ dB /100m	≤ ns /100m	≤ dB /100m	dB	≥ dB /100m	≥ dB /100m	≥ dB /100m	≥ dB /100m	Max. mΩ /m	Min. mΩ /m	Max. mΩ /m	Min. mΩ /m	≥ dB	≥ dB
1	570	25	/	50	78	75	78	75	/	/	115	87	20	/
4	552	25	/	44	78	75	77.2	74.2	/	/	113	89	23	/
8	547	25	/	41	78	75	75.3	72.3	/	/	112	89	24.5	/
10	545	25	/	39	78	75	71.2	68.2	/	/	112	89	25	/
16	543	25	/	38	78	75	69.3	66.3	/	/	112	89	25	/
20	542	25	/	37	78	75	67.3	64.3	/	/	113	89	25	/
25	541	25	/	36	78	75	65.8	62.8	/	/	114	88	24.3	/
31.25	540	25	/	35.1	78	75	65.4	62.4	/	/	114	88	23.6	/
62.5	539	25	/	32	75.5	72.5	59.4	56.4	/	/	118	84	21.5	/
100	538	25	/	30	72.4	69.4	55.3	52.3	/	/	122	82	20.1	/
200	537	25	/	27	67.9	64.9	49.3	46.3	/	/	129	78	18	/
250	536	25	/	26	66.4	63.4	47.3	44.3	/	/	132	76	17.3	/
300	536	25	/	/	65.2	62.2	45.8	42.8	/	/	132	76	17.3	/
400	536	25	/	/	63.4	60.4	43.3	40.3	/	/	132	76	17.3	/
500	536	25	/	/	61.9	58.9	41.3	38.3	/	/	132	76	17.3	/
600	535	25	/	/	60.7	57.7	39.7	36.7	/	/	132	76	17.3	/

ORDERING INFORMATION

E6AUVI31-U	CAT 6A U/UTP 23AWG Solid Cable PVC Jacket, Blue, 305 MTR
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CAT6A CABLES

CATEGORY 6A, U/UTP NETWORK CABLE 23AWG, LSZH

Copper Networking Systems • Pure Copper • 500MHz

Product ID
E6AULI31-U

Default Cable Color
Blue LSZH Jacket

Available in all Colors
Built to Order



ExTell CAT6A Networking Cables are High Quality Pure Copper Networking Cables. CAT6A U/UTP 23AWG is a 4 Pair Unshielded Cables separated by High Density PE Insulation Spine surrounded by a LSZH Jacket.

Designed for short distance Indoor Applications, ExTell CAT6A U/UTP 23AWG Cables provide flawless Ethernet connectivity while ensuring that the requirements for high frequency data applications are consistently met.

Features

10G
10G

Cu
Pure Copper

Low Noise

STANDARDS & APPLICATION

- IEEE 802.3an:2006 (10GBASE-T)
- ANSI/TIA-568-C.2:2009 Category 6A
- ISO/IEC-11801, 2nd Edition Class EA
- IEC 61156-5:2002 Category 6A
- LSZH: IEC 60332-1, IEC 60754, IEC 61034

ELECTRICAL PROPERTIES

Resistance	6.5Ω/100m
Unbalance Resistance of pair	≤ 2%
Unbalance Resistance of pairs	≤ 4%
Dielectric of Conductors	DC1.0kV * 1min
Dielectric conductor to Ground	/
Insulation Resistance 20°C 500V	≥ 5000 MΩ.KM
Mutual Capacitance of a Pair	≤ 5.6 pF/100m
Pair to Ground Unbalance Capacitance	/

CATEGORY 6A, U/UTP NETWORK CABLE 23AWG, LSZH

Copper Networking Systems • Pure Copper • 500MHz

PHYSICAL PROPERTIES

Material		No Aging		Aged			
		Elongation	Tensile Strength	Elongation & Rate of Change		Tensile Strength & Rate of Change	
		(%)	(Mpa)	(%)	(%)	(Mpa)	(%)
Insulation	HDPE	≥ 300	≥ 16	/	/	/	/
	MDPE	≥ 300	≥ 12	/	/	/	/
	PE	≥ 200	≥ 16	/	/	/	/
Jacket	LSZH	≥ 125	≥ 10	≥ 100	-30~+30	≥ 8	-30~+30
	PVC	≥ 286	≥ 19.2	≥ 250	-20~+20	≥ 12.5	-20~+20
	PE	≥ 250	≥ 20	≥ 200	-20~+20	≥ 16	-20~+20

CABLE STRUCTURE

Conductor	Material	Diameter					
	OFC	23AWG 0.58mm					
Insulation	Material	Diameter				Thickness	
	HDPE	1.2mm				0.18mm	
Twisted Pair	Lay Length	1	12mm	Color of Each Pair	1	White-Blue / Blue	
		2	13mm		2	White-Orange / Orange	
		3	16mm		3	White-Green / Green	
		4	20mm		4	White-Brown / Brown	
Separate	YES						
Mylar Tape	NO						
Drain Wire	NO						
Shielding	NO						
Rip Cord	YES						
Sheath	Material	Diameter				Thickness	
	PVC/LSZH/PE	6.5 ± 0.2mm				0.8mm	

CATEGORY 6A, U/UTP NETWORK CABLE 23AWG, LSZH

Copper Networking Systems • Pure Copper • 500MHz

TRANSMISSION PERFORMANCE

Frequency	Phase Delay T	Phase Delay Skew ΔT	Insertion Loss IL	TCL	Near End Crosstalk Loss NEXT	Power Sum NEXT PS NEXT	Equal Level FEXT ELF-EXT	Power Sum PS ELF-EXT	Fitted Characteristic Impedance Zc		Characteristic Impedance Zcm		Return Loss RL	Structure Return Loss SRL
									Max. mΩ /m	Min. mΩ /m	Max. mΩ /m	Min. mΩ /m		
MHz	≤ dB /100m	≤ ns /100m	≤ dB /100m	dB	≥ dB /100m	≥ dB /100m	≥ dB /100m	≥ dB /100m	Max. mΩ /m	Min. mΩ /m	Max. mΩ /m	Min. mΩ /m	≥ dB	≥ dB
1	570	25	/	50	78	75	78	75	/	/	115	87	20	/
4	552	25	/	44	78	75	77.2	74.2	/	/	113	89	23	/
8	547	25	/	41	78	75	75.3	72.3	/	/	112	89	24.5	/
10	545	25	/	39	78	75	71.2	68.2	/	/	112	89	25	/
16	543	25	/	38	78	75	69.3	66.3	/	/	112	89	25	/
20	542	25	/	37	78	75	67.3	64.3	/	/	113	89	25	/
25	541	25	/	36	78	75	65.8	62.8	/	/	114	88	24.3	/
31.25	540	25	/	35.1	78	75	65.4	62.4	/	/	114	88	23.6	/
62.5	539	25	/	32	75.5	72.5	59.4	56.4	/	/	118	84	21.5	/
100	538	25	/	30	72.4	69.4	55.3	52.3	/	/	122	82	20.1	/
200	537	25	/	27	67.9	64.9	49.3	46.3	/	/	129	78	18	/
250	536	25	/	26	66.4	63.4	47.3	44.3	/	/	132	76	17.3	/
300	536	25	/	/	65.2	62.2	45.8	42.8	/	/	132	76	17.3	/
400	536	25	/	/	63.4	60.4	43.3	40.3	/	/	132	76	17.3	/
500	536	25	/	/	61.9	58.9	41.3	38.3	/	/	132	76	17.3	/
600	535	25	/	/	60.7	57.7	39.7	36.7	/	/	132	76	17.3	/

ORDERING INFORMATION

E6AULI31-U	CAT 6A U/UTP 23AWG Solid Cable LSZH Jacket, Blue, 305 MTR
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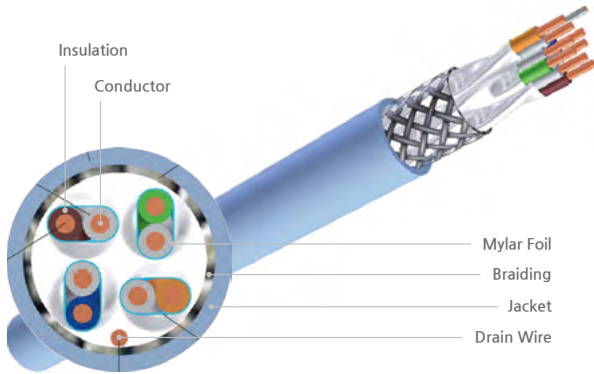
CATEGORY 6A, SF/UTP NETWORK CABLE 23AWG, PVC

Copper Networking Systems • Pure Copper • 500MHz

Product ID
E6AUVI31-SF

Default Cable Color
Blue PVC Jacket

Available in all Colors
Built to Order



ExTell CAT6A SF/UTP cable is designed for applications with high levels of Elettromagnetic Interference.

It consists of 4 pairs of unshielded twisted pair cables separated by a PE spline with an outer Aluminium foil wrapped around the cables and Aluminium braiding for external noise reduction and reduced EMI.

Features

10G
10G

Cu
Pure Copper

Low Noise

STANDARDS & APPLICATION

- IEEE 802.3an:2006 (10GBASE-T)
- IEC 61156-5:2002 Category 6A
- ANSI/TIA-568-C.2:2009 Category 6A
- ISO/IEC-11801, 2nd Edition Class EA
- LSZH: IEC 60332-1, IEC 60754, IEC 61034

PRODUCT DESCRIPTION

Rate Temperature	60°C, 75°C & 90°C
Material	Bare Solid Copper Conductor
Installation Temperature	-30°C~+50°C
Minimum Bending Radius	8D

CATEGORY 6A, SF/UTP NETWORK CABLE 23AWG, PVC

Copper Networking Systems • Pure Copper • 500MHz

ELECTRICAL CHARACTERISTICS

Frequency	Impedance	Return Loss RL	Attenuation	Near End Crosstalk Loss NEXT	Power Sum NEXT PS NEXT	Equal Level ELFEXT	Power Sum PS ELFEXT	Delay Skew	NVP
MHz	ohm	≥ dB	≤ dB /100m	≥ dB /100m	≥ dB /100m	≥ dB /100m	≥ dB /100m	ns /100m	%
1	100 ± 15	20.0	1.9	74.3	72.3	68.0	65.0	≤ 45	74%
4		23.0	3.7	65.0	63.3	56.0	53.0		
8		24.5	5.3	60.7	48.8	49.9	46.9		
10		25.0	5.9	59.0	57.3	48.0	45.0		
16		25.0	7.5	56.0	54.2	43.9	40.9		
20		25.0	8.4	55.0	52.8	42.0	39.0		
25		24.3	9.5	53.3	41.3	40.0	37.0		
31.25		23.6	10.6	52.0	49.9	38.1	35.1		
62.5		21.5	15.4	47.0	45.4	32.1	29.1		
100		20.1	19.8	44.0	42.3	28.0	25.0		
200	18.0	29.0	40.0	37.8	22.0	19.0			
250	17.3	32.8	38.3	36.3	20.0	17.0			
300	16.8	36.4	37.1	34.1	18.5	15.5			
500	100 ± 22	15.2	48.9	33.8	30.8	14.0	11.0		

ORDERING INFORMATION

E6AUVI31-SF	CAT 6A SF/UTP 23AWG Solid Cable 40% Braiding PVC Jacket, Blue, 305 MTR	E6AULI31-SF	CAT 6A SF/UTP 23AWG Solid Cable 40% Braiding LSZH Jacket, Blue, 305 MTR
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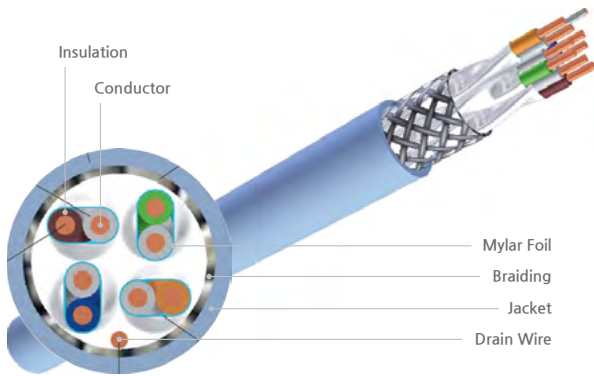
CATEGORY 6A, SF/UTP NETWORK CABLE 23AWG, LSZH

Copper Networking Systems • Pure Copper • 500MHz

Product ID
E6AULI31-SF

Default Cable Color
Blue LSZH Jacket

Available in all Colors
Built to Order



ExTell CAT6A SF/UTP LSZH cable is designed for applications with high levels of Elettromagnetic Interference with a Low Smoke Property specifically for critical Indoor applications.

It consists of 4 pairs of unshielded twisted pair cables separated by a PE spline with an outer Aluminium foil wrapped around the cables and Aluminium braiding for external noise reduction and reduced EMI. It has LSZH Sheath giving greater compliance to Indoor applications.

Features

10G
10G

Cu
Pure Copper

Low Noise

STANDARDS & APPLICATION

- IEEE 802.3an:2006 (10GBASE-T)
- ANSI/TIA-568-C.2:2009 Category 6A
- ISO/IEC-11801, 2nd Edition Class EA
- IEC 61156-5:2002 Category 6A
- LSZH: IEC 60332-1, IEC 60754, IEC 61034

PRODUCT DESCRIPTION

Rate Temperature	60°C, 75°C & 90°C
Material	Bare Solid Copper Conductor
Installation Temperature	-30°C~+50°C
Minimum Bending Radius	8D

CATEGORY 6A, SF/UTP NETWORK CABLE 23AWG, LSZH

Copper Networking Systems • Pure Copper • 500MHz

ELECTRICAL CHARACTERISTICS

Frequency	Impedance	Return Loss RL	Attenuation	Near End Crosstalk Loss NEXT	Power Sum NEXT PS NEXT	Equal Level ELFEXT	Power Sum PS ELFEXT	Delay Skew	NVP
MHz	ohm	≥ dB	≤ dB /100m	≥ dB /100m	≥ dB /100m	≥ dB /100m	≥ dB /100m	ns /100m	%
1	100 ± 15	20.0	1.9	74.3	72.3	68.0	65.0	≤ 45	74%
4		23.0	3.7	65.0	63.3	56.0	53.0		
8		24.5	5.3	60.7	48.8	49.9	46.9		
10		25.0	5.9	59.0	57.3	48.0	45.0		
16		25.0	7.5	56.0	54.2	43.9	40.9		
20		25.0	8.4	55.0	52.8	42.0	39.0		
25		24.3	9.5	53.3	41.3	40.0	37.0		
31.25		23.6	10.6	52.0	49.9	38.1	35.1		
62.5		21.5	15.4	47.0	45.4	32.1	29.1		
100		20.1	19.8	44.0	42.3	28.0	25.0		
200	18.0	29.0	40.0	37.8	22.0	19.0			
250	17.3	32.8	38.3	36.3	20.0	17.0			
300	16.8	36.4	37.1	34.1	18.5	15.5			
500	100 ± 22	15.2	48.9	33.8	30.8	14.0	11.0		

ORDERING INFORMATION

E6AUVI31-SF	CAT 6A SF/UTP 23AWG Solid Cable 40% Braiding PVC Jacket, Blue, 305 MTR	E6AULI31-SF	CAT 6A SF/UTP 23AWG Solid Cable 40% Braiding LSZH Jacket, Blue, 305 MTR
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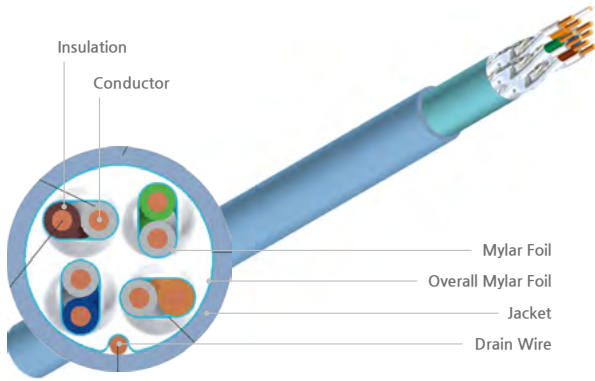
CATEGORY 6A, F/FTP NETWORK CABLE 23AWG, PVC

Copper Networking Systems • Pure Copper • 500MHz

Product ID
E6AFV31-F

Default Cable Color
Blue PVC Jacket

Available in all Colors
Built to Order



ExTell CAT6A F/FTP cable is designed for applications with high levels of Elettromagnetic Interference.

It consists of 4 pairs of unshielded twisted pair cables with Aluminium foil wrapped around individual pairs and an overall Aluminium foil around the cables for external noise reduction and reduced EMI.

Features

10G
10G

Cu
Pure Copper

Low Noise

STANDARDS & APPLICATION

- IEEE 802.3an:2006 (10GBASE-T)
- IEC 61156-5:2002 Category 6A
- ANSI/TIA-568-C.2:2009 Category 6A
- LSZH: IEC 60332-1, IEC 60754, IEC 61034
- ISO/IEC-11801, 2nd Edition Class EA

PRODUCT DESCRIPTION

Rate Temperature	60°C, 75°C & 90°C
Material	Bare Solid Copper Conductor
Installation Temperature	-30°C~+50°C
Minimum Bending Radius	8D

CATEGORY 6A, F/FTP NETWORK CABLE 23AWG, PVC

Copper Networking Systems • Pure Copper • 500MHz

ELECTRICAL CHARACTERISTICS

Frequency	Impedance	Return Loss RL	Attenuation	Near End Crosstalk Loss NEXT	Power Sum NEXT PS NEXT	Equal Level ELFEXT	Power Sum PS ELFEXT	Delay Skew	NVP
MHz	ohm	≥ dB	≤ dB /100m	≥ dB /100m	≥ dB /100m	≥ dB /100m	≥ dB /100m	ns /100m	%
1	100 ± 15	20.0	1.9	74.3	72.3	68.0	65.0	≤ 45	74%
4		23.0	3.7	65.0	63.3	56.0	53.0		
8		24.5	5.3	60.7	48.8	49.9	46.9		
10		25.0	5.9	59.0	57.3	48.0	45.0		
16		25.0	7.5	56.0	54.2	43.9	40.9		
20		25.0	8.4	55.0	52.8	42.0	39.0		
25		24.3	9.5	53.3	41.3	40.0	37.0		
31.25		23.6	10.6	52.0	49.9	38.1	35.1		
62.5		21.5	15.4	47.0	45.4	32.1	29.1		
100		20.1	19.8	44.0	42.3	28.0	25.0		
200		18.0	29.0	40.0	37.8	22.0	19.0		
250	17.3	32.8	38.3	36.3	20.0	17.0			
300	16.8	36.4	37.1	34.1	18.5	15.5			
500	100 ± 22	15.2	48.9	33.8	30.8	14.0	11.0		

ORDERING INFORMATION

E6AFVI31-F	CAT 6A F/FTP 23AWG Solid Cable PVC Jacket, Blue, 305 MTR	E6AFLI31-F	CAT 6A F/FTP 23AWG Solid Cable LSZH Jacket, Blue, 305 MTR
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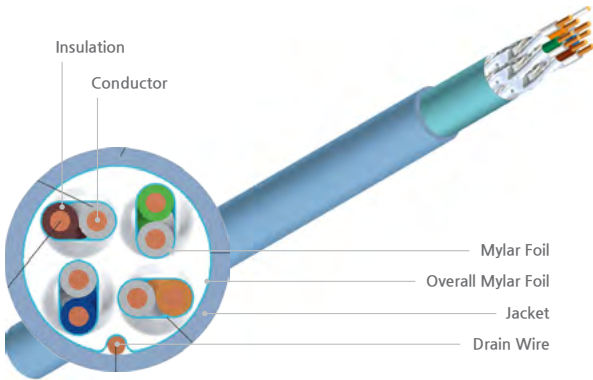
CATEGORY 6A, F/FTP NETWORK CABLE 23AWG, LSZH

Copper Networking Systems • Pure Copper • 500MHz

Product ID
E6AFLI31-F

Default Cable Color
Blue LSZH Jacket

Available in all Colors
Built to Order



ExTell CAT6A F/FTP cable is designed for applications with high levels of Elettromagnetic Interference with a Low Smoke Property specifically for critical Indoor applications.

It consists of 4 pairs of unshielded twisted pair cables with Aluminium foil wrapped around individual pairs and an overall Aluminium foil around the cables for external noise reduction and reduced EMI. It has LSZH Sheath giving greater compliance to Indoor applications.

Features

10G
10G

Cu
Pure Copper

Low Noise

STANDARDS & APPLICATION

- IEEE 802.3an:2006 (10GBASE-T)
- ANSI/TIA-568-C.2:2009 Category 6A
- ISO/IEC-11801, 2nd Edition Class EA
- IEC 61156-5:2002 Category 6A
- LSZH: IEC 60332-1, IEC 60754, IEC 61034

PRODUCT DESCRIPTION

Rate Temperature	60°C, 75°C & 90°C
Material	Bare Solid Copper Conductor
Installation Temperature	-30°C~+50°C
Minimum Bending Radius	8D

CATEGORY 6A, F/FTP NETWORK CABLE 23AWG, LSZH

Copper Networking Systems • Pure Copper • 500MHz

ELECTRICAL CHARACTERISTICS

Frequency	Impedance	Return Loss RL	Attenuation	Near End Crosstalk Loss NEXT	Power Sum NEXT PS NEXT	Equal Level ELFEXT	Power Sum PS ELFEXT	Delay Skew	NVP
MHz	ohm	≥ dB	≤ dB /100m	≥ dB /100m	≥ dB /100m	≥ dB /100m	≥ dB /100m	ns /100m	%
1	100 ± 15	20.0	1.9	74.3	72.3	68.0	65.0	≤ 45	74%
4		23.0	3.7	65.0	63.3	56.0	53.0		
8		24.5	5.3	60.7	48.8	49.9	46.9		
10		25.0	5.9	59.0	57.3	48.0	45.0		
16		25.0	7.5	56.0	54.2	43.9	40.9		
20		25.0	8.4	55.0	52.8	42.0	39.0		
25		24.3	9.5	53.3	41.3	40.0	37.0		
31.25		23.6	10.6	52.0	49.9	38.1	35.1		
62.5		21.5	15.4	47.0	45.4	32.1	29.1		
100		20.1	19.8	44.0	42.3	28.0	25.0		
200	18.0	29.0	40.0	37.8	22.0	19.0			
250	17.3	32.8	38.3	36.3	20.0	17.0			
300	16.8	36.4	37.1	34.1	18.5	15.5			
500	100 ± 22	15.2	48.9	33.8	30.8	14.0	11.0		

ORDERING INFORMATION

E6AFVI31-F	CAT 6A F/FTP 23AWG Solid Cable PVC Jacket, Blue, 305 MTR	E6AFLI31-F	CAT 6A F/FTP 23AWG Solid Cable LSZH Jacket, Blue, 305 MTR
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CAT6A CABLES

CATEGORY 6A, U/UTP OUTDOOR NETWORK CABLE 23AWG, PE

Copper Networking Systems • Pure Copper • UV Resistant

Product ID
E6AUPO33-U

● Default Cable Color
Black PE Jacket

Available in all Colors
Built to Order



ExTell CAT6A Networking Cables are High Quality Pure Copper Networking Cables. CAT6A U/UTP Outdoor Cable is a 4 Pair Unshielded Cables separated by High Density PE Insulation Spine surrounded by a PE Jacket.

Designed for Outdoor Applications, ExTell CAT6A U/UTP Outdoor Cables provide flawless Ethernet connectivity while ensuring that the requirements for VoIP, Security Cameras, Voice, Video Conferencing etc are consistently met.

Features



10G



Pure Copper



UV Resistant

STANDARDS & APPLICATION

- Frequency: 500 MHz
- EN50288-5-1
- ANSI/TIA/EIA-568-5-2000
- UL 444
- EN 55032
- EN 55035
- ISO/IEC 11801:2011 (Ed 2.2) Class E

ELECTRICAL PROPERTIES

Resistance	6.5Ω/100m
Unbalance Resistance of pair	≤ 2%
Unbalance Resistance of pairs	≤ 4%
Dielectric of Conductors	DC1.0kV * 1min
Dielectric conductor to Ground	/
Insulation Resistance 20°C 500V	≥ 5000 MΩ.KM
Mutual Capacitance of a Pair	≤ 5.6 pF/100m
Pair to Ground Unbalance Capacitance	/



CATEGORY 6A, U/UTP OUTDOOR NETWORK CABLE 23AWG, PE

Copper Networking Systems • Pure Copper • UV Resistant

PHYSICAL PROPERTIES

Material		No Aging		Aged			
		Elongation	Tensile Strength	Elongation & Rate of Change		Tensile Strength & Rate of Change	
		(%)	(Mpa)	(%)	(%)	(Mpa)	(%)
Insulation	HDPE	≥ 300	≥ 16	/	/	/	/
	MDPE	≥ 300	≥ 12	/	/	/	/
	PE	≥ 200	≥ 10	/	/	/	/
Jacket	LSZH	≥ 125	≥ 10	≥ 100	-30~+30	≥ 8	-30~+30
	PVC	≥ 150	≥ 13.5	≥ 250	-20~+20	≥ 12.5	-20~+20
	PE	≥ 250	≥ 20	≥ 200	-20~+20	≥ 16	-20~+20

CABLE STRUCTURE

Conductor	Material	Diameter				
	OFC	0.58MM 23AWG				
Insulation	Material	Diameter		Thickness		
	HDPE	1.02mm		0.18mm		
Twisted Pair	Lay Length	1	12mm	Color of Each Pair	1	White-Blue / Blue
		2	13mm		2	White-Orange / Orange
		3	16mm		3	White-Green / Green
		4	20mm		4	White-Brown / Brown
Separate	YES					
Mylar Tape	NO					
Drain Wire	NO					
Shielding	NO					
Sheath	Material	Diameter		Thickness		
	PVC/LSZH/PE	6.5 ± 0.2mm		0.8mm		

CATEGORY 6A, U/UTP OUTDOOR NETWORK CABLE 23AWG, PE

Copper Networking Systems • Pure Copper • UV Resistant

TRANSMISSION PERFORMANCE

Frequency (MHz)	Phase Delay T ≤ dB /100m	Phase Delay Skew ΔT ≤ ns /100m	Insertion Loss IL ≤ dB /100m	TCL dB	Near End Crosstalk Loss NEXT ≥ dB /100m	Power Sum NEXT PS NEXT ≥ dB /100m	ACR-F ≥ dB /100m	PS ACR-F ≥ dB /100m	Fitted Characteristic Impedance Zc		Characteristic Impedance Zcm		Return Loss RL ≥ dB	Structure Return Loss SRL ≥ dB
									Max. mΩ /m	Min. mΩ /m	Max. mΩ /m	Min. mΩ /m		
1	570	45	2	50	74.3	72.3	68	65	113	95	115	85	20	30
4	552	45	3.8	44	65.3	63.3	56	53	109	95	115	85	23	30
8	547	45	5.3	41	60.8	58.8	49.9	46.9	107.8	95	115	85	24.5	30
10	545	45	6	39	59.3	57.3	48	45	107.5	95	115	85	25	30
16	543	45	7.6	38	56.2	54.2	43.9	40.9	107	95	115	85	25	30
20	542	45	8.5	37	54.8	52.8	42	39	106.8	95	115	85	25	30
25	541	45	9.5	36	53.3	51.3	40	37	106.6	95	115	85	24.3	29
31.25	540	45	10.7	35.1	51.9	49.9	38.1	35.1	106.4	95	115	85	23.6	28.1
62.5	539	45	15.4	32	47.4	54.4	32.1	28.8	106	95	115	85	21.5	25.1
100	538	45	19.8	30	44.3	42.3	28	25	105.8	95	115	85	20.1	23
200	537	45	29	27	39.8	37.8	22	19	105.6	95	115	85	18	20
250	536	45	32.8	26	38.3	36.3	20	17	105.5	95	115	85	17.3	19

ORDERING INFORMATION

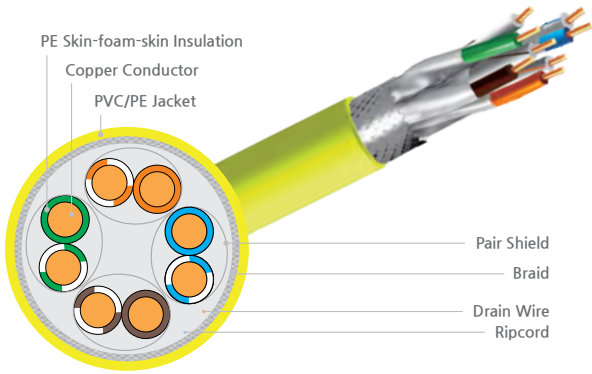
E6AUP033-U	CAT 6A U/UTP Cable, 23 AWG Outdoor PE Sheath 500 MHz, 305 m roll, Black
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CATEGORY 7, S/FTP NETWORK CABLE 23AWG PVC/LSZH

Copper Networking Systems • Pure Copper

Product ID
E7XFX131-S

Default Cable Color
Green PVC Jacket



ExTell CAT7 S/FTP LSZH cable is designed for applications with high levels of Elettromagnetic Interference.

It consists of 4 pairs of unshielded twisted pair cables with Aluminium foil wrapped around individual pairs and an overall Aluminium braiding around the cables for external noise reduction and reduced EMI.

Features

- 10G**
10G
- Cu**
Pure Copper
- Low Noise

STANDARDS & APPLICATION

- IEEE 802.3an:2006 (10GBASE-T)
- ANSI/TIA-568-C.2:2009 Category 6A
- ISO/IEC-11801, 2nd Edition Class EA
- IEC 61156-5:2002 Category 6A
- LSZH: IEC 60332-1, IEC 60754, IEC 61034

PRODUCT DESCRIPTION

Rate Temperature	60°C, 75°C & 90°C
Material	Bare Solid Copper Conductor
Installation Temperature	-30°C~+50°C
Minimum Bending Radius	8D

CATEGORY 7, S/FTP NETWORK CABLE 23AWG PVC/LSZH

Copper Networking Systems • Pure Copper

ELECTRICAL CHARACTERISTICS

Frequency	Impedance	Return Loss RL	Attenuation	Near End Crosstalk Loss NEXT	Power Sum NEXT PS NEXT	Equal Level ELFEXT	Power Sum PS ELFEXT	Delay Skew	NVP
MHz	ohm	≥ dB	≤ dB /100m	≥ dB /100m	≥ dB /100m	≥ dB /100m	≥ dB /100m	ns /100m	%
1	100 ± 15	20.0	-	78.0	75.0	78.0	75.0	≤ 25	80%
4		23.0	3.74	78.0	75.0	78.0	75.0		
8		24.5	5.24	78.0	75.0	75.9	72.9		
10		25.0	5.86	78.0	75.0	74.0	71.0		
16		25.0	7.41	78.0	75.0	69.9	66.9		
20		25.0	8.29	78.0	75.0	68.0	65.0		
25		24.3	9.29	78.0	75.0	66.0	63.0		
31.25		23.6	10.41	78.0	75.0	64.1	61.1		
62.5		21.5	14.88	75.5	72.4	85.1	55.1		
100		20.1	19.20	72.4	69.4	54.0	51.0		
150	18.9	23.56	69.8	66.8	50.2	47.2			
200	100 ± 22	18.0	27.74	67.8	64.9	48.0	45.0		
250		17.3	30.97	66.4	63.4	46.0	43.0		
300	100 ± 25	17.3	34.19	65.2	62.2	44.5	41.5		
600		17.3	50.10	60.7	57.7	38.4	35.4		
800		17.3	58.92	58.9	55.9	35.9	32.9		
1000		13.1	66.93	57.4	54.4	34.0	31.0		

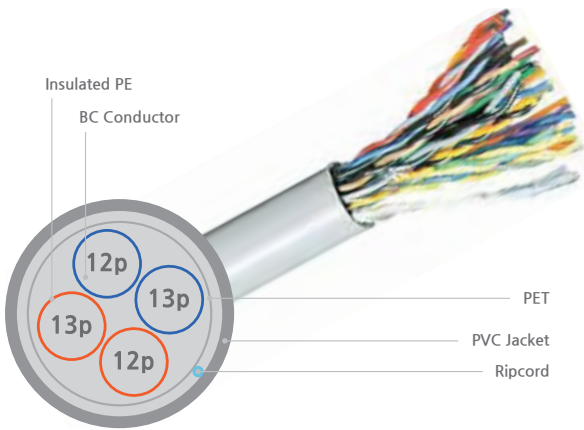
ORDERING INFORMATION

E7XFV131-S	CAT7 S/FTP Cable, 23AWG PVC Jacket, 500m, Drum	E7XFL131-S	CAT7 S/FTP Cable, 23AWG LSZH Jacket, 500m, Drum
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CATEGORY 3, UTP MULTIPAIR TELEPHONE CABLE

Copper Networking Systems • Pure Copper

Product ID
E3XUVI42-UYYY



ExTell CAT3 UTP PVC/LSZH Multipair installation cable is designed to support CAT3 Link and Channel performance, with internationally defined physical and electrical performance up to 16MHz.

Features



Pure Copper



Telephone Systems

STANDARDS COMPLIANCE

- ANSI/TIA/EIA-568A
- ISO/IEC 11801 & 60332-1
- EN 50173

CONSTRUCTION

Conductor	24 AWG Soft Plain Copper				
Insulation	Polyethylene with color marking on Primary cores for easy identification				
Color Code	White/Blue	Red/Blue	Black/Blue	Yellow/Blue	Violet/Blue
	White/Orange	Red/Orange	Black/Orange	Yellow/Orange	Violet/Orange
	White/Green	Red/Green	Black/Green	Yellow/Green	Violet/Green
	White/Brown	Red/Brown	Black/Brown	Yellow/Brown	Violet/Brown
	White/Grey	Red/Grey	Black/Grey	Yellow/Grey	Violet/Grey
Sheath	Nominal Diameter	0.8mm ± 1.5mm / 25Pairs			
Additional Components	Overall Cable covered with Protective Tape				
	Cable is supplied without ripcord unless specified by the customer				

ELECTRICAL PROPERTIES

Maximum Pulling Force	300N
Minimum Bending Radius	≥ 10D(with load) : ≥ 15D(without load)
Nominal Weight	160Kg/km
Operating Temperature	-20°C ~ +60°C
Installation Temperature	0°C ~ + 50°C

ORDERING INFORMATION

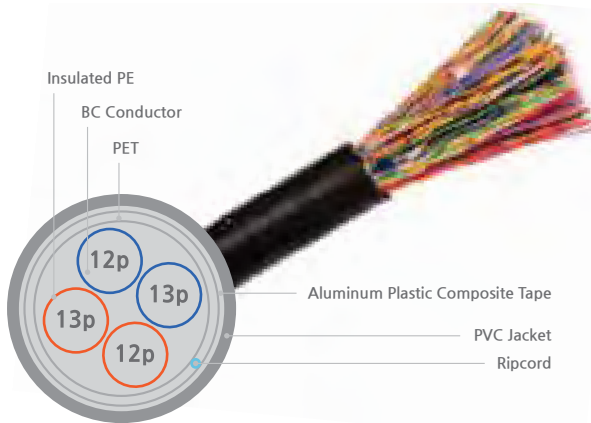
E3XUVI42-U004	CAT3 Multipair Indoor Cable 4 Pair, PVC, 500m, Gray	E3XUVI42-U005	CAT3 Multipair Indoor Cable 5 Pair, PVC, 500m, Gray
E3XUVI42-U006	CAT3 Multipair Indoor Cable 6 Pair, PVC, 500m, Gray	E3XUVI42-U010	CAT3 Multipair Indoor Cable 10 Pair, PVC, 500m, Gray
E3XUVI42-U025	CAT3 Multipair Indoor Cable 25 Pair, PVC, 500m, Gray	E3XUVI42-U050	CAT3 Multipair Indoor Cable 50 Pair, PVC, 500m, Gray
E3XUVI42-U100	CAT3 Multipair Indoor Cable 100 Pair, PVC, 500m, Gray		



CATEGORY 3, OUTDOOR MULTIPAIR CABLE

Copper Networking Systems • Pure Copper

Product ID
E3XUPO43-UYYY



ExTell CAT3 Outdoor jelly filled telephone cables are primarily designed for the interconnection of various buildings in a campus environment. These cables are suitable for installation in outdoor ducts. In addition these cables may be used for the interconnection of other communication and control equipment or low level signaling applications. This range of unshielded cables is designed to support CAT3 Link and Channel performance, with internationally defined physical and electrical performance up to 16MHz.

Features



UV Resistant



Direct Burial



Pure Copper

STANDARDS COMPLIANCE

- ANSI/TIA/EIA-568A
- ISO/IEC 11801 & 60332-1
- EN 50173

TECHNICAL PARAMETERS

Conductor	AWG	24
	Structure	1/0.486 ± 0.008mm
	Outer Diameter	0.486mm
	Material	BC
Insulation	Thickness	0.26mm(Nominal)
	O.D.	1.05 ± 0.05mm
	Material	HDPE
	Color	SEE Color of insulation table
Filler	Type	Jelly Filled
Shield	Tape	PET
	Material	RIP CORD
	Tape	Al
Jacket	Thickness	1.2mm(Nominal)
	O.D.	22.5 ± 1.0mm
	Material	PE
	Color	Black

INSULATION COLOR

No.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
NS	○	○	○	○	○	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
NS	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●



CATEGORY 3, OUTDOOR MULTIPAIR CABLE

Copper Networking Systems • Pure Copper

ELECTRICAL PROPERTIES

Conductor Resistance	≤ 97.8Ω/1000m
Insulation Resistance	≥ 3000MΩKm (DC500V Charged 1Min)
Voltage Endurance	DC 1000V/min
Core-core Resistance Unbalance	≤ 2.5%

TRANSMISSION PERFORMANCE

Frequency	Near End Crosstalk Loss NEXT	Structure Return Loss SRL	SKEW	Insertion Loss IL	Note
MHz	≥ dB /100m	≥ dB	≤ ns /100m	≤ dB /100m	
1	39.1	N/A	50	4.2	TIA CAT3 Channel
4	29.3			7.3	
8	24.3			10.2	
10	22.7			11.5	
16	19.3			14.9	

Frequency	Near End Crosstalk Loss NEXT	Structure Return Loss SRL	SKEW	ATTN	Note
MHz	≥ dB /100m	≥ dB	≤ ns /100m	≤ dB /100m	
1	44.3	12.0	45	2.6	100M TEST Promised 10% line of parameter variation (unqualified)
4	35.3	12.0		5.6	
8	30.8	12.0		8.5	
10	29.3	12.0		9.7	
16	26.2	10.0		13.1	

ORDERING INFORMATION

E3XUPO43-U004	CAT3 Multipair Outdoor Cable 4 Pair, Jelly filled, PE, 500m, Black	E3XUPO43-U005	CAT3 Multipair Outdoor Cable 5 Pair, Jelly filled, PE, 500m, Black
E3XUPO43-U006	CAT3 Multipair Outdoor Cable 6 Pair, Jelly filled, PE, 500m, Black	E3XUPO43-U010	CAT3 Multipair Outdoor Cable 10 Pair, Jelly filled, PE, 500m, Black
E3XUPO43-U025	CAT3 Multipair Outdoor Cable 25 Pair, Jelly filled, PE, 500m, Black	E3XUPO43-U050	CAT3 Multipair Outdoor Cable 50 Pair, Jelly filled, PE, 500m, Black
E3XUPO43-U100	CAT3 Multipair Outdoor Cable 100 Pair, Jelly filled, PE, 500m, Black		

CATEGORY 3, VOICE PATCH PANEL

Copper Networking Systems • Pure Copper

Product ID
E3X25U3L-PM



ExTell CAT3 unshielded patch panels is constructed in standard 1U 19inch size, suitable for all 19inch rack installations. The main metal frame and rear back cover are made of SECC material, with a thickness of over 1.0mm. the products are 4P4C terminal block for 25ports, and 8P8C for 50 ports type and come in black or light gray color.

Features



Strain Relief



Easy termination

STANDARDS COMPLIANCE

- ANSI/TIA/EIA-568A
- ISO/IEC 11801& 60332-1
- EN 50173

PHYSICAL CHARACTERISTICS

- Jack: Phosphor bronze
- DC : 30µ inch phosphor bronze or tin plated over nickel
- 3µ inch gold plating over nickel in contact area

APPLICATION

- 10BASE-T Ethernet
- Supports all voice systems

ORDERING INFORMATION

E3X25U3L-PM	CAT3 Voice Patch Panel, 25 Port	E3X50U3L-PM	CAT3 Voice Patch Panel, 50 Port
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CATEGORY 3, DISTRIBUTION BOX

Copper Networking Systems • Pure Copper

Product ID
E3XIDB2-YYY



ExTell Indoor connection Box is an adaptable plastic box designed to contain various back mount frames and mountings for ancillary components. The base has generous provisions for fixing of cable tie anchors, jumper rings, earth posts and connector.

Features



High Density



Seamless Connection

STANDARDS COMPLIANCE

- ANSI/TIA/EIA-568A
- ISO/IEC 11801 & 60332-1
- EN 50173

MATERIAL

Plastic Parts	ABS-VO-UL94, Grey
Contact Pins	1mm Silver-Plated Bronze

INDOOR DB BOX (UK TYPE)

20 Pair	Mounting Frame, w/out Module, Measurement - L:170mm, W:120mm, H:55mm ABS (UL V0)
50 Pair	Mounting Frame, w/out Module, Measurement - L:208mm, W:159mm, H:90mm ABS (UL V0)
100 Pair	Mounting Frame, w/out Module, Measurement - L:319mm, W:209mm, H:122mm ABS (UL V0)

ORDERING INFORMATION

E3XIDB6-010	CAT3 Indoor Distribution Box, 10 Pair, White	E3XIDB2-020	CAT3 Indoor Distribution Box, 20 Pair, Gray
E3XIDB2-050	CAT3 Indoor Distribution Box, 50 Pair, Gray	E3XIDB2-100	CAT3 Indoor Distribution Box, 100 Pair, Gray
E3XIDB2-200	CAT3 Indoor Distribution Box, 200 Pair, Gray		

CATEGORY 3, DISCONNECTION MODULES

Copper Networking Systems • Pure Copper

Product ID
E3XDSC-10-6

Standards Compliance

- ANSI/TIA/EIA-568A
- ISO/IEC 11801& 60332-1
- EN 50173



10 Pair Disconnect Module has been designed for CAT3 Telecommunications connections allowing for 10 incoming and 10 outgoing pairs. Earth Modules are used in conjunction with Disconnect Modules to safely earth and redirect electrical surges and can connect up to 30 earth leads.

Features



Seamless Connection

TECHNICAL SPECIFICATIONS

ENVIRONMENT

Environment Condition	-40°C to 90°C
Operation Condition	-20°C to 80°C
Atmospheric Pressure	70-106KPA
Relative Humidity	< 85%

MECHANICAL SPECIFICATIONS

Pulling-out Force	≥ 25N
Diameter of Connection Wire	22AWG-26AWG
Insulation resistance between the reed terminators	≥ 10GΩ
Contact Resistance	≥ 1mΩ
Dielectric Strength	2KV eff
Impulse Voltage Resistance	3.6KV(8/20)
Operating Voltage for basic insulation	210Vdc, 150V eff TNV
Pollution Class	II
Insulation Material Class	I
Transient over Voltage for basic insulation	2.5KV
Current carrying capacity, disconnection module, connection	10KA/5KA
IDC Re-termination	≥ 200 cycles
Number of test cord insertions	≥ 750
Transmission Performance	≥ TIA 566B CATEGO

EFFICIENCY

Plastic Components	PBT (UL94V-0)
Contact material	Phosphor bronze (Qsn6, 5-0.1)
Contact plating	Silver plating 20 uinch
Specifications	10 pairs
IDC Type	Disconnection type
Dimension (HXWXD)	124mm x21mm x40 mm

ORDERING INFORMATION

E3XDSC-10-6	CAT3 10 Pair Disconnection Module, White
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CATEGORY 6, 90 KEYSTONE JACK UNSHIELDED

Copper Networking Systems • Seamless connectivity

Product ID
EK6XU0906

Specifications

- Meets ANSI/TIA/EIA-568-B.2-1 Requirements
- Meets ISO/IEC 11801



ExTell offers a variety of Keystone Jacks for wide applications. With variants of 90°, 180°, Shielded, Unshielded and Toolless variants, ExTell's Keystone Jacks support TIA 568 A&B wiring for better connectivity, accuracy and stable performance.

While the Toolless variants helps save time and effort, the regular Keystone Jacks can be terminated using Krone tools for perfection.

Features



Toolless



Easy to Install



Dust Protection

ELECTRICAL CHARACTERISTICS

230VAC/115VAC	/
Meets UL 1862	YES
Current Rating	1.5 A max
Voltage Rating	150 V max
Insulation Resistance	500 MOhm min at 100 V DC
Dielectric Withstand Voltage	1000 V AC RMS, 60Hz for 1 min
Contact Resistance	20 MOhm max
IDC Contact Resistance	2.5 MOhm max

MATERIAL

Housing	FR and IR PCB (fire-retardant and impact resistant polycarbonate) UL 94V-0
Pin Contacts	Phosphor Bronze Alloy plated with 50 micro-inch of Gold IDC: for 22-26 AWG cable

ENVIRONMENTAL CONDITIONS

Storage Temperature	-40°C - +70°C (-40°F - +158°F)
Operating Temperature	-10°C - +60°C (+14°F - +140°F)
Relative Humidity	93%

ORDERING INFORMATION

EK6XU0906	CAT 6, 90° Unshielded Keystone Jack, Dual Type, IDC, White	EK6XU0906-T	CAT 6, 90° Unshielded Toolless Keystone Jack, Dual Type IDC
EK6XU1806	CAT 6, 180° Unshielded Keystone Jack, Dual Type IDC	EK6XU1806-T	CAT 6, 180° Unshielded Toolless Keystone Jack, Dual Type IDC
EK6XS0906	CAT 6, 90° Shielded Keystone Jack, Dual Type IDC	EK6XS1806	CAT 6, 180° Shielded Die-Casting Keystone Jack

CATEGORY 6A, 90 KEYSTONE JACK UNSHIELDED

Copper Networking Systems

Product ID
EK6AU0906

Specifications

- Meets ANSI/TIA/EIA-568-B.2-1 Requirements
- Meets ISO/IEC 11801



ExTell offers a variety of Keystone Jacks for wide applications. With variants of 90°, 180°, Shielded, Unshielded and Toolless variants, ExTell's Keystone Jacks support TIA 568 A&B wiring for better connectivity, accuracy and stable performance.

While the Toolless variants helps save time and effort, the regular Keystone Jacks can be terminated using Krone tools for perfection.

Features



Toolless



Easy to Install



Dust Protection

ELECTRICAL CHARACTERISTICS

230VAC/115VAC	/
Meets UL 1862	YES
Current Rating	1.5 A max
Voltage Rating	150 V max
Insulation Resistance	500 MOhm min at 100 V DC
Dielectric Withstand Voltage	1000 V AC RMS, 60Hz for 1 min
Contact Resistance	20 MOhm max
IDC Contact Resistance	2.5 MOhm max

MATERIAL

Housing	FR and IR PCB (fire-retardant and impact resistant polycarbonate) UL 94V-0
Pin Contacts	Phosphor Bronze Alloy plated with 50 micro-inch of Gold IDC: for 22-26 AWG cable

ENVIRONMENTAL CONDITIONS

Storage Temperature	-40°C - +70°C (-40°F - +158°F)
Operating Temperature	-10°C - +60°C (+14°F - +140°F)
Relative Humidity	93%

ORDERING INFORMATION

EK6AU0906	CAT 6A, 90° Unshielded Keystone Jack, Dual Type, IDC, White	EK6AU0906-T	CAT 6A, 90° Unshielded Toolless Keystone Jack, Dual Type IDC
EK6AU1806	CAT 6A, 180° Unshielded Keystone Jack, Dual Type IDC	EK6AU1806-T	CAT 6A, 180° Unshielded Toolless Keystone Jack, Dual Type IDC
EK6AS0906	CAT 6A, 90° Shielded Keystone Jack, Dual Type IDC	EK6AS1806	CAT 6A, 180° Shielded Die-Casting Keystone Jack

CATEGORY 6A, SHIELDED PATCH PANEL 24 PORT RJ45 LOADED

Copper Networking Systems

Product ID
E6A24S3L-PM

Applications

- 1000BASE-T/TX Gigabit / 100BASE-TX Fast Ethernet
- 10BASE-T Ethernet Video, Voice & Data Applications



ExTell CAT6 Shielded Patch Panel System is scientifically engineered to provide superior Electromagnetic Interference (EMI) and radio Frequency Interference (RFI) protection for data security.

Designed to provide a higher level of security to sensitive networks, ExTell Patch Panels are ideally suited in areas such as government, healthcare and manufacturing. Smart Patch Panel Designs are also available.

Features



Adjustable Strain Relief



Easy Termination and Installation



High Density



Shielded

STANDARDS COMPLIANCE

- EIA-310-D
- ISO/IEC 11801:2011
- ISO/IEC 11281:2002
- IEC 60603-7-51:2010
- IEC 60603-7-[4.5]:2010
- EN 50173-2: 2007
- ANSI / TIA-568-C.2:2009

CONSTRUCTION CHARACTERISTICS

- Modern Design and Mounting Simplicity
- Color marking of conductors according to T568B and T568A
- Color and numeral marking of IDC modules on the rear side
- Hyperline patch cord usage provides the best connection
- IDC dual contacts provide minimal crosstalk
- Space for additional marking
- Numeral marking of ports on the front side of the panel

PHYSICAL CHARACTERISTICS

Jack	Phosphor Bronze, 50µ inch Gold plating over Nickel in contact area
IDC	100µ inch Nickel Plated over Phosphor Bronze
Shielded Cover	50-60µ inch Nickel Plated over Phosphor Bronze

CATEGORY 6A, SHIELDED PATCH PANEL 24 PORT RJ45 LOADED

Copper Networking Systems

ELECTRICAL CHARACTERISTICS

Dielectric Strength	1000V RMS for 1 min
Current Rating	1.5 amp Max.
Insulation Resistance	500 ohms(min)@ 500 Vdc
Contact Resistance	2M° per contact
Temperature Range	-10°c to 60°c
Humidity	10% to 90%; Non Condensing
Voltage Rating	72 VDC Max

MATERIAL

Housing	ABS 94V-0
IDC	PC UL94V-0
PCB	Fr-4 1.6 mm (0.06") thick, 2 layers
Contacts	0.35 mm (0.014") Phosphor bronze with 1.27 micron (50 micro inches) Gold plating on contact area
Metal Housing	1.6 mm (0.06") thick metal

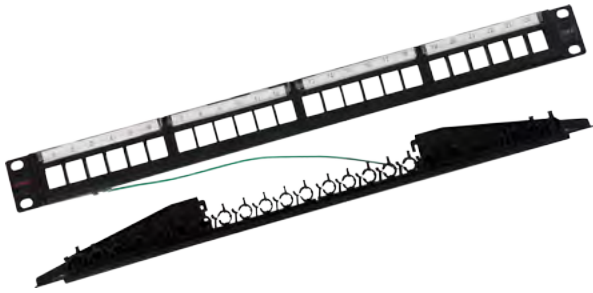
ORDERING INFORMATION

E6A24U3L-PM	CAT 6A Patch Panel 24 Port RJ-45, PCB Dual Type IDC, Unshielded, Black	E6A24U3L-MPP	CAT 6A Unshielded Modular Patch Panel, Dual Type IDC, 24 Ports Jack /CM, Black
E6A48U3L-PM	CAT 6A Patch Panel 48 port RJ-45, PCB Dual Type IDC, Unshielded, Black	E6A48U3L-MPP	CAT 6A Unshielded Modular Patch Panel, Dual Type IDC, 48 Ports
E6A24S3L-PM	CAT 6A Patch Panel 24 Port RJ-45, PCB Dual Type IDC, Shielded, Black	E6A24S3L-MPP	CAT 6A Shielded Modular Patch Panel, Dual Type IDC, 24 Ports Jack /CM, Black

CATEGORY 6/6A, LOADED PATCH PANEL MODULAR, 24 PORT

Copper Networking Systems

Product ID
E6A24U3L-MPP



ExTell CAT6 Shielded Patch Panel System is scientifically engineered to provide superior Electromagnetic Interference (EMI) and radio Frequency Interference (RFI) protection for data security.

Designed to provide a higher level of security to sensitive networks, ExTell Patch Panels are ideally suited in areas such as government, healthcare and manufacturing. Smart Patch Panel Designs are also available.

Features

- 
Adjustable Strain Relief
- 
Ease of Installation
- 
Aesthetic Design
- 
Modular Keystone Jack Termination

STANDARDS COMPLIANCE

- EIA-310-D
- ISO/IEC 11801:2011
- ISO/IEC 11281:2002
- IEC 60603-7-51:2010
- IEC 60603-7-[4.5]:2010
- EN 50173-2: 2007
- ANSI / TIA-568-C.2:2009

DESIGN

Type	Modular Loaded Keystone Jack Type
Width	19" Rack Mount
Height	1U
Cable Management	Adjustable Cable Manager to match Network cable Outer Diameter

MATERIAL

Frame	1.5mm Cold Rolled Steel
Connector Holder	High Impact Plastic Compound
Color	Black

ORDERING INFORMATION

E6A24U3L-MPP	CAT 6A Unshielded Modular Patch Panel, Dual Type IDC, 24 Ports Jack /CM, Black	E6A24U3L-PM	CAT 6A Patch Panel 24 Port RJ-45, PCB Dual Type IDC, Unshielded, Black
E6A48U3L-MPP	CAT 6A Unshielded Modular Patch Panel, Dual Type IDC, 48 Ports	E6A48U3L-PM	CAT 6A Patch Panel 48 port RJ-45, PCB Dual Type IDC, Unshielded, Black
E6A24S3L-MPP	CAT 6A Shielded Modular Patch Panel, Dual Type IDC, 24 Ports Jack /CM, Black	E6A24S3L-PM	CAT 6A Patch Panel 24 Port RJ-45, PCB Dual Type IDC, Shielded, Black

CATEGORY 6A, U/UTP PATCH CORD MOLDED, SNAG PROOF

Copper Networking Systems • 500MHz

Product ID
E6AUV14-UXXX

Default Cable Color
Blue PVC

Gold Plated Copper Alloy
1.27 micron



ExTell CAT6A Networking Cables are High Quality Pure Copper Networking Accessories. ExTell CAT6A Patch Cords are Molded RJ45 with Snagless boots at either ends.

Available in Multiple Colors, Lengths and in Shielded, Unshielded variants with an Easy, Tear Off Protective Packaging.

Features



Strain Relief Boots

Available in Multiple Colours

LSZH and PVC Combinations available

STANDARDS COMPLIANCE

- ISO/IEC 11801 Ed 2.0
- ANSI/TIA568-C.2
- EN 50173-1
- IEC 61156-5
- EN 50288-10-1
- IEC 60332-3-24
- IEC 60754-2
- IEC 61034

ORDERING INFORMATION

E6AUV14-U0051	CAT 6A, U/UTP Patch Cord Molded, with Snag Proof, 0.5m, Blue	E6AUV14-U011	CAT 6A, U/UTP Patch Cord Molded, with Snag Proof, 1m, Blue
E6AUV14-U021	CAT 6A, U/UTP Patch Cord Molded, with Snag Proof, 2m, Blue	E6AUV14-U031	CAT 6A, U/UTP Patch Cord Molded, with Snag Proof, 3m, Blue
E6AUV14-U051	CAT 6A, U/UTP Patch Cord Molded, with Snag Proof, 5m, Blue	E6AUV14-U101	CAT 6A, U/UTP Patch Cord Molded, with Snag Proof, 10m, Blue

CATEGORY 6/6A, FACE PLATES

Copper Networking Systems

Product ID
EFOXXX6S



ExTell CAT6/6A Keystone Jack Faceplates are strong build, high quality products with both UK, US Type Faceplate designs in Straight and Angular Versions.

Available in Ivory White, White PVC, Gray and Metallic Designs, the Face Plates are Snap-In Type with Label Holder for easy identification.

Features



Strong



Aesthetic Design

CONSTRUCTION CHARACTERISTICS

- Secures to any surface, drywall, baseboard, & modular furniture
- 100% compatible with standard wall (face) plates
- Models to accommodate 1/2/3/4 inserts and shuttered dust cover
- Comply UL-94V-0 high-impact, fire-retardant ABS resin
- Available in PVC and Metal finish
- Keystone jacks can be snapped in and out easily
- Hidden mounting screws and Clear Outlet Id labels

ORDERING INFORMATION

EF09016S	Face Plate, Right-angle, 90° Entry, 86*86, Snap-In with Shutter, 1-Port, White	EF09026S	Face Plate, Right-angle, 90° Entry, 86*86, Snap-In with Shutter, 2-Port, White
EF04516S	Face Plate, Right-angle, 45° Entry, 86*86, Snap-In with Shutter, 1-Port, White	EF04526S	Face Plate, Right-angle, 45° Entry, 86*86, Snap-In with Shutter, 2-Port, White

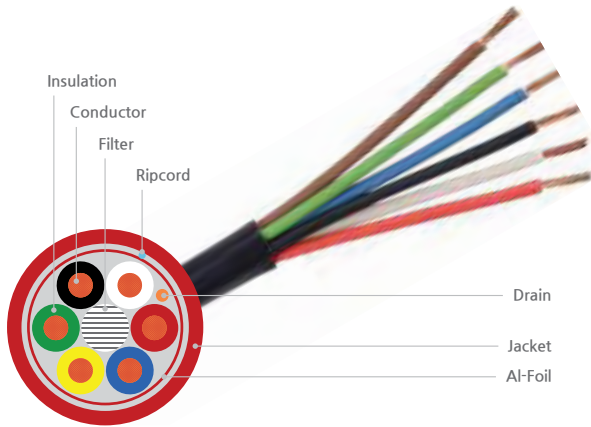
CONTROL CABLE 6C X 18AWG / 6C X 22AWG

Copper Networking Systems

Product ID
E186SVV5-CC-SC

Standards Compliance

- ANSI/TIA/EIA-568A
- ISO/IEC 11801 & 60332-1
- EN 50173



ExTell Systems Security and Commercial Audio cable, 18 AWG, 6 stranded bare copper conductors with polyolefin insulation and PVC jacket with ripcord.

APPLICATIONS

- Security Systems, Intercom / PA Systems, Sound / Audio Systems, Power Limited Controls and Single Line Telephones
- Length Available -100 Meters & above upon request

TECHNICAL SPECIFICATION

	C x AWG	6C x 18	6C x 22
Conductor	Structure	7/0.254 ± 0.01mm	7/0.254 ± 0.01mm
	Outer Diameter	1.35mm	0.76mm
	Material	Bare Copper	Tinned Copper
Insulation	Thickness	0.25mm (Nominal)	0.25mm (Nominal)
	Outer Diameter	1.9 ± 0.1mm	1.3 ± 0.1mm
	Material	PP	PP
Individually Shield	Drain	21/0.18mm, TC	
	Tape	Al-Foil	
Jacket	Thickness	0.5mm (Nominal)	0.45mm (Nominal)
	Outer Diameter	6.9 ± 0.3mm	5.0 ± 0.3mm
	Material	PVC	PVC
	Color	Red	Red
	Marking	Every 2 feet	Every 2 feet
Temperature Rating	60°C	60°C	60°C
Voltage Rating	30V	30V	30V
Flammability	Comply to VW-1	Comply to VW-1	Comply to VW-1

ORDERING INFORMATION

E186SVV5-CC-BC	6 Core 18AWG AL Shielded PVC Insulation Multipurpose Control Cable, Solid Conductor	E186SVV5-CC-SC	6 Core 18AWG AL Shielded PVC Insulation Multipurpose Control Cable, Stranded Conductor
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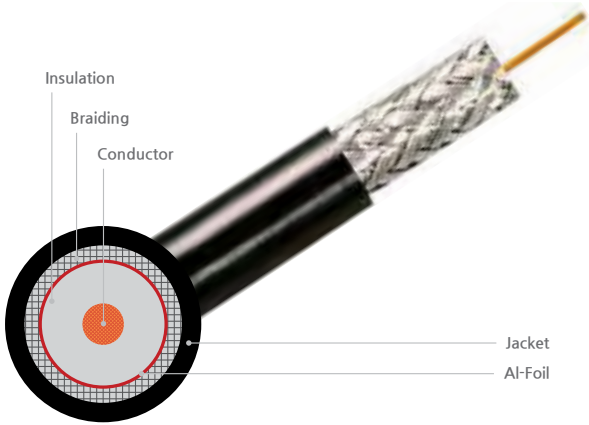
RG-6 CO-AXIAL CABLES

Copper Networking Systems

Product ID
EG06ALXXV3-SF

Standards Compliance

- ANSI/TIA/EIA-568A
- ISO/IEC 11801& 60332-1
- EN 50173



ExTell Systems RG6, RG59 coaxial cable is used to connect audio/video equipment, such as TVs, DVD players and satellite receivers. this cable offers F-connectors on both ends for easy installation.

APPLICATIONS

- Security Systems, Intercom / PA Systems, Sound / Audio Systems, Power Limited Controls and Single Line Telephones
- Length Available -100 Meters & above upon request

CHARACTERISTICS

Inner Conductor	Structure	1/1.02 ± 0.02mm
	Outer Diameter	1.02mm
	Material	CCS
Insulation	Thickness	1.77(Nominal)
	Outer Diameter	4.57 ± 0.15mm
	Material	FPE
Filler	Color	White
	Type	Jelly Filled
Shield	Tape	Al Foil
	Braiding	0.16mm, AL , 85%
Jacket	Thickness	0.75mm(Nominal)
	Outer Diameter	6.86 ± 0.2mm
	Material	PVC
	Color	Black

TECHNICAL SPECIFICATION

Description	Cl	Ca	Attenuation (db/100M) (20°C)								Return Loss	
	Ω	pF/M	55 MHz	211 MHz	450 MHz	500 MHz	600 MHz	750 MHz	950 MHz	1000 MHz	55~300 MHz	300~1000 MHz
Specifications	75 ± 3	52 ± 3	5.25	10.00	14.40	15.30	16.70	18.50	21.30	22.00	> 20dB	> 18dB
Notes	Maximum Attenuation 5%											

ORDERING INFORMATION

EG06AL60V3-SF	RG6 Cable with 60% Al Braiding, 500m	EG06CUXV3-SF	RG6 Cable with 60% Cu Braiding, 500m
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RG-59 CO-AXIAL CABLES

Copper Networking Systems

Product ID
EG59ALXXV3-SF

Standards Compliance

- ANSI/TIA/EIA-568A
- ISO/IEC 11801& 60332-1
- EN 50173



ExTell Systems RG6, RG59 coaxial cable is used to connect audio/video equipment, such as TVs, DVD players and satellite receivers. this cable offers F-connectors on both ends for easy installation.

APPLICATIONS

- Security Systems, Intercom / PA Systems, Sound / Audio Systems, Power Limited Controls and Single Line Telephones
- Length Available -100 Meters & above upon request

CHARACTERISTICS

Inner Conductor	Structure	1/0.81 ± 0.01mm
	Outer Diameter	0.81mm
	Material	BC
Insulation	Thickness	1.44mm(Nominal)
	Outer Diameter	3.66 ± 0.1mm
	Material	FPE
	Color	Natural
Shield	Braiding	0.127mm, BC, Coverage 95%
	Thickness	0.97mm(Nominal)
Jacket	Outer Diameter	6.1 ± 0.2mm
	Material	PVC
	Color	Black

TECHNICAL SPECIFICATION

Description	Cl	Ca	Attenuation (db/100M) (20°C)									Return Loss
			5 MHz	10 MHz	50 MHz	100 MHz	200 MHz	400 MHz	700 MHz	900 MHz	1000 MHz	
Specifications	Ω	pF/M	2.39	3.34	7.37	10.39	14.65	21.31	27.24	30.81	32.45	5~300 MHz
Notes			Maximum Attenuation 3%									> 20dB

ORDERING INFORMATION

EG59AL60V3-SF	RG59 Cable with 60% Al Braiding, 500m	EG59CUXXV3-SF	RG59 Cable with 60% Cu Braiding, 500m
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FIRE ALARM CABLES

High quality pure copper products developed for long life and superior performance

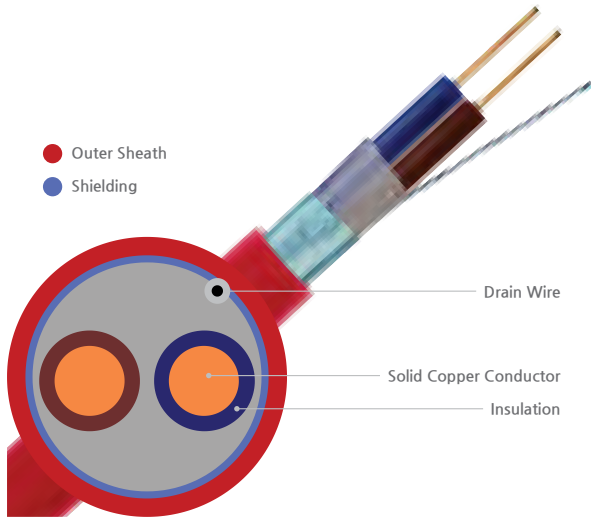


FIRE ALARM CABLE, 2C X 16AWG

Fire Alarm Systems

Product ID
E162UVV5-FA-BC

Default Cable Color
Red Jacket



ExTell Fire Alarm Cables are fire resistant electric cables used in high rise buildings, commercial complexes, schools, hospitals etc for connecting applications like smokedetectors, emergency lightings, fire command centers and many more.

Designed for guaranteed fire safety, ExTell Fire Alarm cables are rigorously tested to IEC60332-1 standards for flame retardant tests for use in emergency circuits. Solid Conductor Alarm Cables also help with ease of installation while ensuring high quality in every installation.

STANDARDS COMPLIANCE

- IEC 60332-1 - Flame Retardant

CABLE CHARACTERISTICS

Conductor	Solid Annealed Bare Copper Wire
Nominal Conductor Size	16AWG (7/0.49 mm ± 0.015)
Form of Conductor	Round
Insulation Material	PVC
Insulation Thickness (Nom)	0.60mm
Insulation Diameter	2.70 ± 0.2 mm
No. of Cores	2
Color of Cores	Red & Black
Outer Sheath Material	PVC Compound Flame Retardant
Outer Sheath Thickness (Nom)	1.0mm
Approx. Outer Diameter	8.0 ± 0.5 mm
Outer Sheath Color	Red

FIRE ALARM CABLE, 2C X 16AWG

Fire Alarm Systems

THERMAL AND MECHANICAL PROPERTIES

Temperature Rating	-20 to 105°C
Tensile Strength (Un-aged)	Insulation: ≥ 10.35 Mpa Jacket: ≥ 10.35 Mpa
Elongation (Un-aged)	Insulation: ≥ 100% Jacket: ≥ 100%

ELECTRICAL PROPERTIES AT 20°C

Voltage Rating	300V
High Voltage Test	1.5kV RMS (50Hz) per minute
DC Resistance at 20°C (Max) for Conductor	14.30 Ω/Km Max

ORDERING INFORMATION

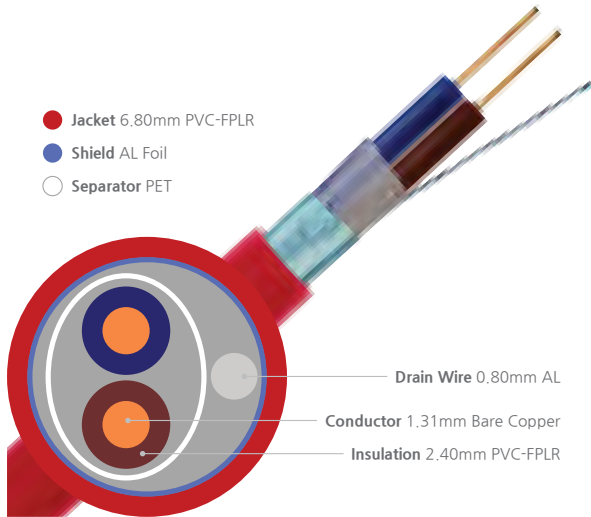
E162UVV5-FA-BC	ExTell 2C 16AWG, Unshielded, Fire Alarm Cable, PVC Insulation, PVC Red Jacket	E162UVL5-FA-BC	ExTell 2C 16AWG, Unshielded, Fire Alarm Cable, PVC Insulation, LSZH Red Jacket
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FIRE ALARM CABLE, 2C X 16AWG, FPLR PVC SHEATH

Fire Alarm Systems

Product ID
E162SVV5-FA-BC

Default Cable Color
Red Jacket



ExTell Fire Alarm Cables FPLR cables are fire resistant electric cables used in high rise buildings, commercial complexes, schools, hospitals etc for connecting applications like smoke detectors, emergency lightings, fire command centers and many more.

Designed for guaranteed fire safety, ExTell Fire Alarm cables are rigorously tested to IEC60332-1 standards for flame retardant tests for use in emergency circuits.

STANDARDS COMPLIANCE

- ANSI/UL 1424 - Cables for Power Limited Fire Alarm Circuits

COMPLIANCE

- Application of insulation - BS 7629-1-2008
- Insulation Type - BS 50363-5
- Flame Propagation(bunched cable) - IEC332-3/TS EN50266
- Sheath - BS 7656-6-1/LTS 3
- Inner Conductor Diameter - BS EN 60228
- Corrosive and Acid Gas Emission - BS EN 50267-2-1
- Flame Propagation(single cable) - IEC332-1/TS EN60332-1-2

CABLE CHARACTERISTICS

Conductor	Solid Bare Copper, Dia: 2 x 1.35 ± 0.03mm
Insulation	Type: PVC-FPLR, Dia over Dielectric: 2 x 2.40mm
Insulation Color	Blue / Brown
Separator	PET Foil
Drain Wire	0.80mm Solid Aluminum
Shield	Aluminum PET (100% Coverage, 20% Overlapping)
Jacket	PVC-FPLR, Dia over Jacket: 6.80mm

FIRE ALARM CABLE, 2C X 16AWG, FPLR PVC SHEATH

Fire Alarm Systems

ELECTRICAL PROPERTIES

Min Conductor Resistance	11.8 Ω /Km
Min Insulation Resistance	300 M Ω /Km
Temperature Rating	-35°C ~ +105°C
Test Voltage (RMS Value)	2KV/15 min, 1KV/5 min

ORDERING INFORMATION

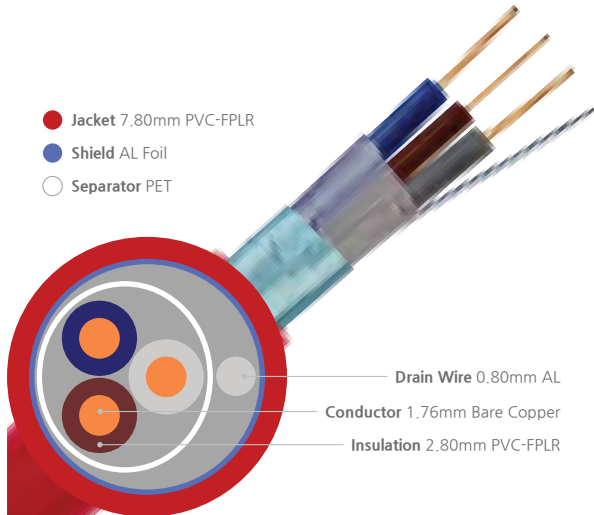
E162SVV5-FA-BC	ExTell 2C 16AWG, Fire Alarm Cable, PVC FPLR Insulation, FPLR PVC Red Jacket
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FIRE ALARM CABLE, 3C X 14AWG, FPLR PVC SHEATH

Fire Alarm Systems

Product ID
E1423VV5-FA-BC

Default Cable Color
Red Jacket



ExTell Fire Alarm Cables FPLR cables are fire resistant electric cables used in high rise buildings, commercial complexes, schools, hospitals etc for connecting applications like smoke detectors, emergency lightings, fire command centers and many more.

Designed for guaranteed fire safety, ExTell Fire Alarm cables are rigorously tested to IEC60332-1 standards for flame retardant tests for use in emergency circuits.

STANDARDS COMPLIANCE

- ANSI/UL 1424 - Cables for Power Limited Fire Alarm Circuits

COMPLIANCE

- Application of insulation - BS 7629-1-2008
- Insulation Type - BS 50363-5
- Flame Propagation(bunched cable) - IEC332-3/TS EN50266
- Sheath - BS 7656-6-1/LTS 3
- Inner Conductor Diameter - BS EN 60228
- Corrosive and Acid Gas Emission - BS EN 50267-2-1
- Flame Propagation(single cable) - IEC332-1/TS EN60332-1-2

CABLE CHARACTERISTICS

Conductor	Solid Bare Copper, Dia: 3 x 1.78 ± 0.03mm
Insulation	Type: PVC-FPLR, Dia over Dielectric: 2 x 2.80mm
Insulation Color	Blue / Brown / Grey
Separator	PET Foil
Drain Wire	0.80mm Solid Aluminum
Shield	Aluminum PET (100% Coverage, 20% Overlapping)
Jacket	PVC-FPLR, Dia over Jacket: 8.0mm

FIRE ALARM CABLE, 3C X 14AWG, FPLR PVC SHEATH

Fire Alarm Systems

ELECTRICAL PROPERTIES

Min Conductor Resistance	11.8 Ω/Km
Min Insulation Resistance	300 MΩ/Km
Temperature Rating	-35°C ~ +105°C
Test Voltage (RMS Value)	2KV/15 min, 1KV/5 min

ORDERING INFORMATION

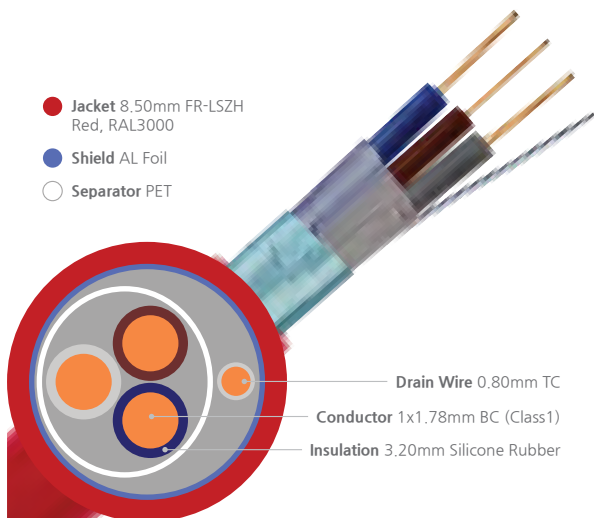
E1423VV5-FA-BC	ExTell 3C 14AWG, Fire Alarm Cable, PVC FPLR Insulation, FPLR PVC Red Jacket
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PH30 FIRE ALARM CABLE, 3 X 2.5mm²

Fire Alarm Systems

Product ID
EXX3RA5-FA-BC

Default Cable Color
Red Jacket



ExTell Fire Alarm Cables are fire resistant electric cables used in high rise buildings, commercial complexes, schools, hospitals etc for connecting applications like smokedetectors, emergency lightings, fire command centers and many more.

Designed for guaranteed fire safety, ExTell Fire Alarm cables are rigorously tested to BS EN 50200 standards for resistance to fire of unprotected small cables for use in emergency circuits. Solid Conductor Alarm Cables also help with ease of installation while ensuring high quality in every installation.

STANDARDS COMPLIANCE

Flame Tests	BS 4066 Part 1 & 3	EN 50266-2-4	IEC 60332-3-24	IEC/EN60332-1
Insulation Integrity	IEC 60331	BS 6387 CWZ	EN 50200 PH30	
Smoke Density	BS 7622	IEC/EN 61034	HD 606	
Corrosive Gas Measurement	BS EN 50267-2-2	IEC 60754-2		

CABLE CHARACTERISTICS

Conductor	2.5mm ² Plain Annealed Copper Wire Class 1,2 or 5 according to EN60228
Insulation	Fire Resistant Silicone Rubber BS 6387 CWZ, EN 50200 PH30, IEC 60331, Dia over Dielectric: 3 x 3.20 mm
Insulation Color	Blue / Brown / Grey
Separator	PET Foil
Drain Wire	0.80mm Solid Aluminum
Shield	Aluminum PET (100% Coverage, 20% Overlapping)
Jacket	FR-LSZH (Red or White), Dia over Jacket: 8.70 ± 0.20 mm, HFFREN 502902, BS7655 LTS1/LTS3

PH30 FIRE ALARM CABLE, 3 X 2.5mm²

Fire Alarm Systems

ELECTRICAL PROPERTIES

Min Bend Radius	8 x Diameter
Min Insulation Resistance	200 MΩ/Km
Temperature Rating	-30°C ~ +90°C
Test Voltage	2000V
Max Operating Voltage	300V / 600V
Max Resistance of Conductor	Class 1 & 2: 12Ω/Km Class 5: 12.9Ω/Km

ORDERING INFORMATION

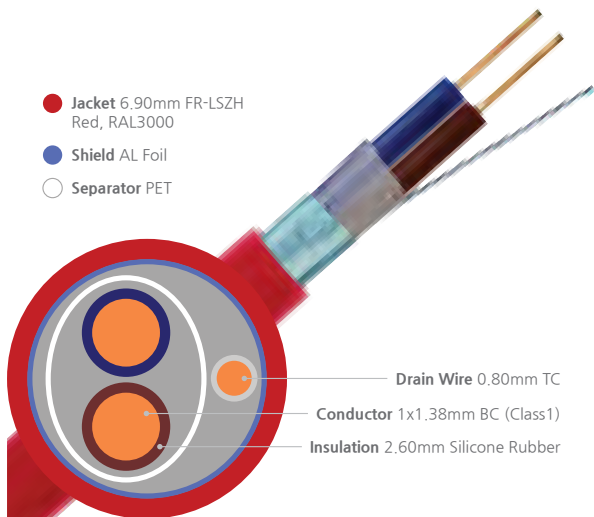
E103RA5-FA-BC	3 x 1.0mm ² PH 30 Rated Fire Alarm Cable, Red Jacket	E153RA5-FA-BC	3 x 1.5mm ² PH 30 Rated Fire Alarm Cable, Red Jacket
E253RA5-FA-BC	3 x 2.5mm ² PH 30 Rated Fire Alarm Cable, Red Jacket		

PH30 FIRE ALARM CABLE, 2 X 1.5mm²

Fire Alarm Systems

Product ID
EXX2RA5-FA-BC

Default Cable Color
Red Jacket



ExTell Fire Alarm Cables are fire resistant electric cables used in high rise buildings, commercial complexes, schools, hospitals etc for connecting applications like smokedetectors, emergency lightings, fire command centers and many more.

Designed for guaranteed fire safety, ExTell Fire Alarm cables are rigorously tested to BS EN 50200 standards for resistance to fire of unprotected small cables for use in emergency circuits. Solid Conductor Alarm Cables also help with ease of installation while ensuring high quality in every installation.

STANDARDS COMPLIANCE

Flame Tests	BS 4066 Part 1 & 3	EN 50266-2-4	IEC 60332-3-24	IEC/EN60332-1
Insulation Integrity	IEC 60331	BS 6387 CWZ	EN 50200 PH30	
Smoke Density	BS 7622	IEC/EN 61034	HD 606	
Corrosive Gas Measurement	BS EN 50267-2-2	IEC 60754-2		

CABLE CHARACTERISTICS

Conductor	1.5mm ² Plain Annealed Copper Wire Class 1,2 or 5 according to EN60228
Insulation	Fire Resistant Silicone Rubber BS 6387 CWZ, EN 50200 PH30, IEC 60331, Dia over Dielectric: 2 x 2.60 mm
Insulation Color	Blue / Brown
Separator	PET Foil
Drain Wire	0.80mm Solid Tinned Copper
Shield	Aluminum PET (100% Coverage, 20% Overlapping)
Jacket	FR-LSZH (Red or White), Dia over Jacket: 7.0 ± 0.10 mm, HFFREN 502902, BS7655 LTS1/LTS3

PH30 FIRE ALARM CABLE, 2 X 1.5mm²

Fire Alarm Systems

ELECTRICAL PROPERTIES

Min Bend Radius	8 x Diameter
Min Insulation Resistance	200 MΩ/Km
Temperature Rating	-30°C ~ +90°C
Test Voltage	2000V
Max Operating Voltage	300V / 600V
Max Resistance of Conductor	Class 1 & 2: 12Ω/Km Class 5: 12.9Ω/Km

ORDERING INFORMATION

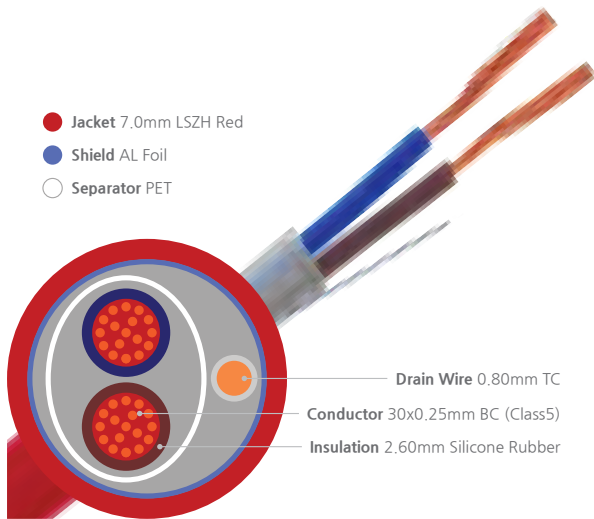
E102RA5-FA-BC	2 x 1.0mm ² PH 30 Rated Fire Alarm Cable, Red Jacket	E152RA5-FA-BC	2 x 1.5mm ² PH 30 Rated Fire Alarm Cable, Red Jacket
E252RA5-FA-BC	2 x 2.5mm ² PH 30 Rated Fire Alarm Cable, Red Jacket	E352RA5-FA-BC	2 x 3.5mm ² PH 30 Rated Fire Alarm Cable, Red Jacket

FIRE ALARM CABLE 2C X 16AWG, STRANDED COPPER, PVC SHEATH

Fire Alarm Systems

Product ID
E162UVV5-FA-SC

● Default Cable Color
Red Jacket



ExTell Fire Alarm Cables FPLR cables are fire resistant electric cables used in high rise buildings, commercial complexes, schools, hospitals etc for connecting applications like smoke detectors, emergency lightings, fire command centers and many more.

Designed for guaranteed fire safety, ExTell Fire Alarm cables are rigorously tested to IEC60332-1 standards for flame retardant tests for use in emergency circuits.

STANDARDS COMPLIANCE

Flame Tests	BS 4066 Part 1 & 3	EN 50266-2-4	IEC 60332-3-24	IEC/EN60332-1
Insulation Integrity	IEC 60331	BS 6387 CWZ	EN 50200 PH30	
Smoke Density	BS 7622	IEC/EN 61034	HD 606	
Corrosive Gas Measurement	BS EN 50267-2-2	IEC 60754-2		

CABLE CHARACTERISTICS

Conductor	1.5mm ² Plain Annealed Copper Wire Class 1,2 or 5 according to EN60228
Insulation	Fire Resistant Silicone Rubber BS 6387 CWZ, EN 50200 PH30, IEC 60331, Dia over Dielectric: 2 x 2.60 mm
Insulation Color	Blue / Brown
Separator	PET Foil
Drain Wire	0.80mm Solid Tinned Copper
Shield	Aluminum PET (100% Coverage, 20% Overlapping)
Jacket	FR-LSZH (Red or White), Dia over Jacket: 7.0 ± 0.10 mm, HFFREN 502902, BS7655 LTS1/LTS3

FIRE ALARM CABLE 2C X 16AWG, STRANDED COPPER, PVC SHEATH

Fire Alarm Systems

ELECTRICAL PROPERTIES

Min Bend Radius	8 x Diameter
Min Insulation Resistance	200 MΩ/Km
Temperature Rating	-30°C ~ +90°C
Test Voltage	2000V
Max Operating Voltage	300V / 600V
Max Resistance of Conductor	Class 1 & 2: 12Ω/Km Class 5: 12.9Ω/Km

ORDERING INFORMATION

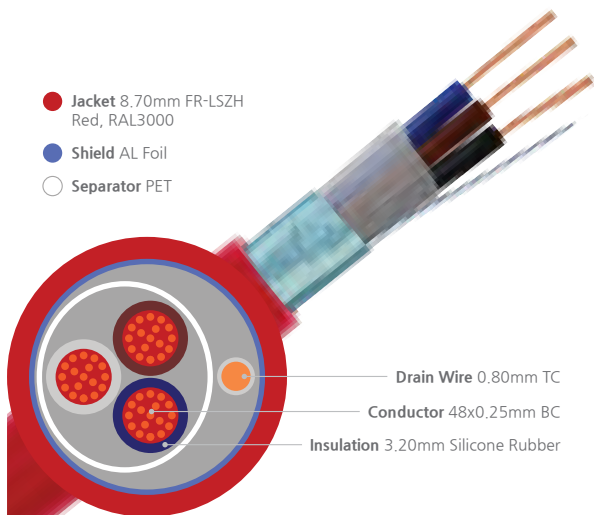
E162UVV5-FA-SC	ExTell 2C 16AWG, Unshielded, Fire Alarm Cable, PVC Insulation, PVC Red Jacket, Stranded Copper	E162UVL5-FA-SC	ExTell 2C 16AWG, Unshielded, Fire Alarm Cable, PVC Insulation, LSZH Red Jacket, Stranded Copper
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FIRE ALARM CABLE 3C X 14AWG, STRANDED COPPER, PVC SHEATH

Fire Alarm Systems

Product ID
E143UVV5-FA-SC

Default Cable Color
Red Jacket



ExTell Fire Alarm Cables FPLR cables are fire resistant electric cables used in high rise buildings, commercial complexes, schools, hospitals etc for connecting applications like smoke detectors, emergency lightings, fire command centers and many more.

Designed for guaranteed fire safety, ExTell Fire Alarm cables are rigorously tested to IEC60332-1 standards for flame retardant tests for use in emergency circuits.

STANDARDS COMPLIANCE

Flame Tests	BS 4066 Part 1 & 3	EN 50266-2-4	IEC 60332-3-24	IEC/EN60332-1
Insulation Integrity	IEC 60331	BS 6387 CWZ	EN 50200 PH30	
Smoke Density	BS 7622	IEC/EN 61034	HD 606	
Corrosive Gas Measurement	BS EN 50267-2-2	IEC 60754-2		

CABLE CHARACTERISTICS

Conductor	2.5mm ² Plain Annealed Copper Wire Class 1,2 or 5 according to EN60228
Insulation	Fire Resistant Silicone Rubber BS 6387 CWZ, EN 50200 PH30, IEC 60331, Dia over Dielectric: 3 x 3.20 mm
Insulation Color	Blue / Brown
Separator	PET Foil
Drain Wire	0.80mm Solid Tinned Copper
Shield	Aluminum PET (100% Coverage, 20% Overlapping)
Jacket	FR-LSZH (Red or White), Dia over Jacket: 8.70 ± 0.20 mm, HFFREN 502902, BS7655 LTS1/LTS3

FIRE ALARM CABLE 3C X 14AWG, STRANDED COPPER, PVC SHEATH

Fire Alarm Systems

ELECTRICAL PROPERTIES

Min Bend Radius	8 x Diameter
Min Insulation Resistance	200 MΩ/Km
Temperature Rating	-30°C ~ +90°C
Test Voltage	2000V
Max Operating Voltage	300V / 600V
Max Resistance of Conductor	Class 1 & 2: 12Ω/Km Class 5: 12.9Ω/Km

ORDERING INFORMATION

E143UVV5-FA-SC	ExTell 3C 14AWG, Unshielded, Fire Alarm Cable, PVC Insulation, PVC Red Jacket, Stranded Copper	E143UVL5-FA-SC	ExTell 3C 14AWG, Unshielded, Fire Alarm Cable, PVC Insulation, LSZH Red Jacket, Stranded Copper
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POWER BACKUP SOLUTIONS

Solutions designed to offer **seamless power backup** and give lasting performance, whether in your office setup or a rugged outdoor harsh weather environment



ATOM LINE INTERACTIVE UPS 600VA TO 2000VA

Power Backup Solutions • Power Backup Solutions • Home and Office Use

Product ID
EATM-XXXCD



ExTell Atom Line Interactive UPS is the perfect protection device for your Personal Computers. Small and Economic, Atom is designed to protect against Power Surges and Spikes. With a Built In AVR Stabilizer, Atom gives a pure and clean stable power to your connected equipment.

Atom LI UPS gives you a rich touch LCD Display with all vital information. With a compact size, Atom is has a cold start function and high reliability through its microprocessor design.

Features

- ✓ Cold Start Function
- ✓ AVR for Voltage Stabilization
- ✓ LCD Display
- ✓ Simulated Sinewave output
- ✓ Compact Size
- ✓ Universal Output Power Socket
- ✓ 500VA to 2000VA

STANDARDS COMPLIANCE

- EMC/Safety - EMC EN62040-2 C2

Uninterruptible Power System

MODEL	Atom 650VA	Atom 800VA
CAPACITY	650VA/200W	800VA/250W
Input Voltage	220/230/240VAC	220/230/240VAC
Input Voltage Range	140-300 VAC	140-300 VAC
Output Voltage Regulation	± 1% (Bat. mode)	
Transfer Time	Typical 4-6 ms	
Waveform	Simulated Sine Wave	
Battery Type & No.	12V/7Ahx1	12V/7Ahx1
Charging Time	4-6 hours recover to 90% capacity	
Dimension (LxWxH)	279 x 191 x 142 mm	
Net Weight (kg)	4.2	4.1
Humidity	5-95% RH @ 0-45°C (Non-condensing)	
Noise Level	Less than 45dB	

Simple Solution for Home and Office Users

- Compact size
- Boost and buck AVR for voltage stabilization
- Auto restart while AC is recovering
- Off-mode charging
- Cold start function
- Generator compatible (option)
- Optional HID Power Device USB port

ATOM LINE INTERACTIVE UPS 600VA TO 2000VA

Power Backup Solutions • Power Backup Solutions • Home and Office Use

TECHNICAL SPECIFICATIONS

Model	EATM-600CD	EATM-800CD	EATM-1000CD	EATM-1200CD	EATM-1500CD	EATM-2000CD
Capacity	600VA/360W	800VA/480W	1000VA/600W	1200VA/720W	1500VA/900W	2000VA/1200W
INPUT						
Nominal Voltage	22/230/240 VAC					
Voltage Range	-35% to +25%					
Frequency Range	50 or 60 Hz (Auto Sensing)					
OUTPUT						
Voltage Regulation	AC Mode / Battery Normal: 220/230/240 VAC ± 10%					
Frequency	182 ~ 253 VAC at 100% load; 121 ~ 153VAC at <63% load					
Waveform	50/60Hz (Auto sensing)					
Transfer Time	40Hz ~70Hz					
Outlet Configuration	German or Universal X 2 PCS Backup & AVR		IEC X 2 PCS + German or Universal X 4 PCS			
BATTERY						
Voltage	12V DC			24VDC		
Type	12V/7Ah x 1PC	12V/9Ah x 1PC	12V/7Ah x 2PC	12V/7Ah x 2PC	12V/9Ah x 2PC	12V/9Ah x 2PC
Recharge Time	5 hours to 90% after Complete Discharge					
Safety Protection	Over Charge and Over Discharge Protection					
Advanced Battery Management	Yes					
DISPLAY						
LCD Display	Input and Output Voltage & Frequency Load% Battery%					
AUDIBLE ALARM						
Battery Mode	Two short tones every 8 seconds					
Low Battery	Four short tones every second					
Overload	Red: LED: Flashing Buzzer: Beeping continuously					
Fault	Beeping Continuously					
MANAGEMENT						
Smart USB	Software supporting Windows 10					
ENVIRONMENT						
Operating Temp	0 ~ 40°C					
Relative Humidity	0 ~ 95% non-condensing					
Accoustic Noise	<40db at 1M					
PHYSICAL						
Dimensions	315.5 * 100 * 141 mm			343 * 135 * 208 mm		

ONLINE SINGLE PHASE UPS

SPECTRA EXTERNAL TOWER 1 TO 3KVA, ONLINE UPS

Power Backup Solutions • Compact • Quiet • High Performance • Unity Power Factor • Pure Sinewave • Energy Saving

Product ID
EXXXSET31

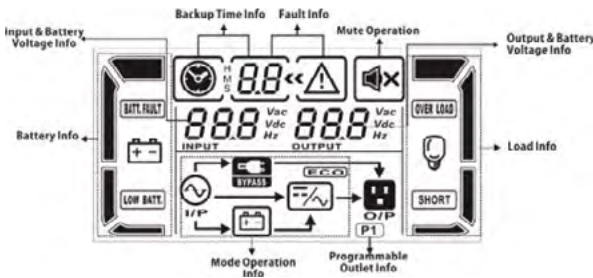


ExTell Spectra Single Phase Online UPS is a cost effective, reliable protection and power backup device for your sensitive and critical loads. With a true Double-Conversion online design, Spectra gives you a pure sinewave output with a 0.8 Power Factor Load Carrying capacity.

It has a rich LCD Display that provides you all the vital information and has advanced alarm and email functions for critical notifications. With an adjustable charging current, Spectra is also a SMART UPS that is Network Manageable by the addition of an external SNMP Card. With an optimized and low THDi Spectra guarantees reliability and protection for all connected loads.

Features

- ✓ Pure Sinewave
- ✓ Alarms and Notifications
- ✓ Network Manageable
- ✓ Adjustable Charging current
- ✓ Power Factor = 0.8
- ✓ Comprehensive LCD display



STANDARDS COMPLIANCE

- EMC/Safety - EMC EN62040-2 C2

ADDITIONAL FEATURES

- Microprocessor control optimizes reliability
- Wide input voltage (110 V - 300 V)
- ECO mode for energy saving (Only available for 1-3KVA)
- Adjustable battery number only available for 6K and up models
- Input power factor correction
- Converter mode available
- Generator compatible
- Optional isolation transformer available

SPECTRA EXTERNAL TOWER 1 TO 3KVA, ONLINE UPS

Power Backup Solutions • Compact • Quiet • High Performance • Unity Power Factor • Pure Sinewave • Energy Saving

TECHNICAL SPECIFICATIONS

Model	E001SET31		E002SET31		E003SET31		
Phase	Single phase with ground						
Capacity	1000 VA / 800 W		2000 VA / 1600 W		3000 VA / 2400 W		
INPUT							
Nominal Voltage	110/115/120/127VAC or 208/220/230/240VAC						
Input Voltage Range	55-150 VAC or 110-300 VAC (Based on load at 50%) 85-140VAC or 160-280VAC (Based on load at 100%)						
Frequency Range	40Hz ~ 70 Hz						
Power Factor	≥ 0.99 @ Nominal Voltage (100% load)						
OUTPUT							
Output Voltage	110/115/120/127VAC or 208/220/230/240VAC						
Voltage Regulation	± 1%						
Frequency Range (Synchronized Range)	47~53 Hz or 57~63 Hz						
Frequency Range (Batt. Mode)	50 Hz ± 0.25 Hz or 60Hz ± 0.3 Hz						
Current Crest Ratio	3:1						
Harmonic Distortion	≤3 % THD (Linear Load), ≤6 % THD (Non-linear Load)						
Transfer Time	AC Mode to Battery Mode	Zero					
	Inverter to Bypass	4 ms (Typical)					
Waveform (Batt. Mode)	Pure Sinewave						
EFFICIENCY							
AC Mode	88%		89%		90%		
Battery Mode	83%		87%		88%		
BATTERY							
Standard Model	Battery Type	12 V / 9 AH					
	Numbers	2		4		6	
	Typical Recharge Time	4 hours recover to 90% capacity					
	Charging Current (max.)	1.0 A					
	Charging Voltage	27.4VDC ± 1%		54.7 VDC ±1%		82.1 VDC ±1%	
Long-run Model	Battery Type	Depending on the capacity of external batteries					
	Numbers	2	3	4	6	8	
	Charging Current (max.)	1.0 A / 2.0 A / 4.0 A / 6.0 A (Adjustable)					
	Charging Voltage	27.4VDC ± 1%	41.0VDC ± 1%	54.7 VDC ± 1%	82.1 VDC ± 1%	109.4VDC ± 1%	82.1 VDC ± 1%
INDICATORS							
LCD	Load level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicators						
ALARM							
Battery Mode	Sounding every 4 seconds						
Low Battery	Sounding every second						
Overload	Sounding twice every second						
Fault	Continuously sounding						
PHYSICAL							
Standard Model	Dimension D X W X H (mm)	282 x 145 x 220		397 x 145 x 220		421 x 190 x 318	
	Net Weight (kgs)	9.8		17		27.6	
Long-run Model	Dimension D X W X H (mm)	282 x 145 x 220		397 x 145 x 220			
	Net Weight (kgs)	4.1		6.8		7.4	
ENVIRONMENT							
Humidity	20-90 % RH @ 0 - 40°C (non-condensing)						
Noise Level	Less than 50dBA @ 1 Meter						
MANAGEMENT							
Smart RS-232 / USB	Supports Windows 2000/2003/XP/Vista/2008/7/8, Linux, Unix, and MAC						
Optional SNMP	Power management from SNMP manager and web browser						

SPECTRA EXTERNAL TOWER 6 TO 10KVA, ONLINE UPS

Power Backup Solutions • Compact • Quiet • High Performance • Unity Power Factor • Pure Sinewave • Energy Saving

Product ID
EXXXSET31



ExTell Spectra Single Phase Online UPS is a cost effective, reliable protection and power backup device for your sensitive and critical loads. With a true Double-Conversion online design, Spectra gives you a pure sinewave output with a 0.8 Power Factor Load Carrying capacity.

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Features

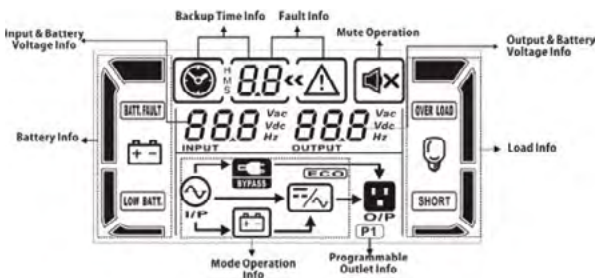
- ✓ Pure Sinewave
- ✓ Alarms and Notifications
- ✓ Network Manageable
- ✓ Adjustable Charging current
- ✓ Power Factor = 0.8
- ✓ Comprehensive LCD display

STANDARDS COMPLIANCE

- EMC/Safety - EMC EN62040-2 C2

ADDITIONAL FEATURES

- Microprocessor control optimizes reliability
- Input power factor correction
- Wide input voltage (110 V - 300 V)
- Converter mode available
- ECO mode for energy saving (Only available for 1-3KVA)
- Generator compatible
- Adjustable battery number only available for 6K and up models
- Optional isolation transformer available



SPECTRA EXTERNAL TOWER 6 TO 10KVA, ONLINE UPS

Power Backup Solutions • Compact • Quiet • High Performance • Unity Power Factor • Pure Sinewave • Energy Saving

TECHNICAL SPECIFICATIONS

Model	E006SET31		E010SET31		
Phase	Single phase with ground				
Capacity	6000 VA / 4800 W		10000 VA / 8000 W		
INPUT					
Nominal Voltage	208/220/230/240VAC				
Input Voltage Range	110-300 VAC (Based on load at 50%), 176-300 VAC (Based on load at 100%)				
Frequency Range	46~54 Hz or 56~64 Hz				
Power Factor	≥ 0.99 @ Nominal Voltage (100% load)				
OUTPUT					
Output Voltage	208/220/230/240VAC				
Voltage Regulation	± 1%				
Frequency Range (Synchronized Range)	46~54 Hz or 56~64 Hz				
Frequency Range (Batt. Mode)	50 Hz or 60Hz ± 0.1 Hz				
Current Crest Ratio	3:1				
Harmonic Distortion	≤ 3 % THD (Linear Load), ≤ 5 % THD (Non-linear Load)				
Transfer Time	AC Mode to Battery Mode	Zero			
	Inverter to Bypass	Zero			
Waveform (Batt. Mode)	Pure Sinewave				
EFFICIENCY					
AC Mode	92%		93%		
Battery Mode	90%		91%		
BATTERY					
Standard Model	Battery Type	12 V / 9 AH			
	Numbers	16	20	16	20
	Typical Recharge Time	9 hours recover to 90% capacity			
	Charging Current (max.)	1.0 A / 2.0 A			
	Charging Voltage	218.4 VDC ± 1%	273 VDC ± 1%	218.4 VDC ± 1%	273 VDC ± 1%
Long-run Model	Battery Type	Depending on the capacity of external batteries			
	Numbers	16 ~ 20 (Adjustable)			
	Charging Current (max.)	1.0 A / 2.0 A / 4.0 A / 6.0 A (Adjustable, 6A is only available for 16pcs batteries)			
	Charging Voltage	273 VDC ± 1% (Based on 20pcs batteries)			
INDICATORS					
LCD	Load level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicators				
ALARM					
Battery Mode	Sounding every 4 seconds				
Low Battery	Sounding every second				
Overload	Sounding twice every second				
Fault	Continuously sounding				
PHYSICAL					
Standard Model	Dimension D X W X H (mm)	369 x 190 x 688		442 x 190 x 688	
	Net Weight (kgs)	61	74	66	76
Long-run Model	Dimension D X W X H (mm)	369 x 190 x 318		442 x 190 x 318	
	Net Weight (kgs)	12		16	
ENVIRONMENT					
Humidity	0-95% RH @ 0-50°C (non-condensing)		0-95% RH @ 0-40°C (non-condensing)		
Noise Level	Less than 55dBA @ 1 Meter		Less than 58dBA @ 1 Meter		
MANAGEMENT					
Smart RS-232 / USB	Supports Windows 2000/2003/XP/Vista/2008/7/8, Linux, Unix, and MAC				
Optional SNMP	Power management from SNMP manager and web browser				

ONLINE SINGLE PHASE UPS

SPECTRA EXTERNAL RACK MOUNT 1 TO 3KVA, ONLINE UPS

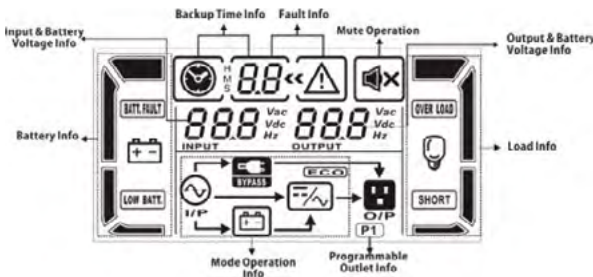
Power Backup Solutions • Compact • Quiet • High Performance • Unity Power Factor • Pure Sinewave • Energy Saving

Product ID
EXXXSER31



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Features

- ✓ Pure Sinewave
- ✓ Alarms and Notifications
- ✓ Network Manageable
- ✓ Adjustable Charging current
- ✓ Power Factor = 0.8
- ✓ Comprehensive LCD display

STANDARDS COMPLIANCE

- EMC/Safety - EMC EN62040-2 C2

ADDITIONAL FEATURES

- Microprocessor control optimizes reliability
- Wide input voltage (110 V - 300 V)
- ECO mode for energy saving (Only available for 1-3KVA)
- Adjustable battery number only available for 6K and up models
- Input power factor correction
- Converter mode available
- Generator compatible
- Optional isolation transformer available

SPECTRA EXTERNAL RACK MOUNT 1 TO 3KVA, ONLINE UPS

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TECHNICAL SPECIFICATIONS

Model	E001SER31		E002SER31		E003SER31		
Phase	Single phase with ground						
Capacity	1000 VA / 800 W		2000 VA / 1600 W		3000 VA / 2400 W		
INPUT							
Nominal Voltage	110/115/120/127VAC or 208/220/230/240VAC						
Input Voltage Range	55-150 VAC or 110-300 VAC (Based on load at 50%) 85-140VAC or 160-280VAC (Based on load at 100%)						
Frequency Range	40Hz ~ 70 Hz						
Power Factor	≥ 0.99 @ Nominal Voltage (100% load)						
OUTPUT							
Output Voltage	110/115/120/127VAC or 208/220/230/240VAC						
Voltage Regulation	± 1%						
Frequency Range (Synchronized Range)	47~53 Hz or 57~63 Hz						
Frequency Range (Batt. Mode)	50 Hz ± 0.25 Hz or 60Hz ± 0.3 Hz						
Current Crest Ratio	3:1						
Harmonic Distortion	≤3 % THD (Linear Load), ≤6 % THD (Non-linear Load)						
Transfer Time	AC Mode to Battery Mode	Zero					
	Inverter to Bypass	4 ms (Typical)					
Waveform (Batt. Mode)	Pure Sinewave						
EFFICIENCY							
AC Mode	88%		89%		90%		
Battery Mode	83%		87%		88%		
BATTERY							
Standard Model	Battery Type	12 V / 9 AH					
	Numbers	2		4		6	
	Typical Recharge Time	4 hours recover to 90% capacity					
	Charging Current (max.)	1.0 A					
	Charging Voltage	27.4VDC ± 1%		54.7 VDC ±1%		82.1 VDC ±1%	
Long-run Model	Battery Type	Depending on the capacity of external batteries					
	Numbers	2	3	4	6	8	
	Charging Current (max.)	1.0 A / 2.0 A / 4.0 A / 6.0 A (Adjustable)					
	Charging Voltage	27.4VDC ± 1%	41.0VDC ± 1%	54.7 VDC ± 1%	82.1 VDC ± 1%	109.4VDC ± 1%	82.1 VDC ± 1%
INDICATORS							
LCD	Load level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicators						
ALARM							
Battery Mode	Sounding every 4 seconds						
Low Battery	Sounding every second						
Overload	Sounding twice every second						
Fault	Continuously sounding						
PHYSICAL							
Standard Model	Dimension D X W X H (mm)	282 x 145 x 220		397 x 145 x 220		421 x 190 x 318	
	Net Weight (kgs)	9.8		17		27.6	
Long-run Model	Dimension D X W X H (mm)	282 x 145 x 220		397 x 145 x 220			
	Net Weight (kgs)	4.1		6.8		7.4	
ENVIRONMENT							
Humidity	20-90 % RH @ 0 - 40°C (non-condensing)						
Noise Level	Less than 50dBA @ 1 Meter						
MANAGEMENT							
Smart RS-232 / USB	Supports Windows 2000/2003/XP/Vista/2008/7/8, Linux, Unix, and MAC						
Optional SNMP	Power management from SNMP manager and web browser						

SPECTRA EXTERNAL RACK MOUNT 6 TO 10KVA, ONLINE UPS

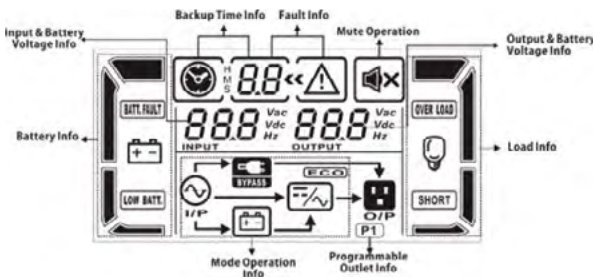
Power Backup Solutions • Compact • Quiet • High Performance • Unity Power Factor • Pure Sinewave • Energy Saving

Product ID
EXXXSER31



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Features

- ✓ Pure Sinewave
- ✓ Alarms and Notifications
- ✓ Network Manageable
- ✓ Adjustable Charging current
- ✓ Power Factor = 0.8
- ✓ Comprehensive LCD display

STANDARDS COMPLIANCE

- EMC/Safety - EMC EN62040-2 C2

ADDITIONAL FEATURES

- Microprocessor control optimizes reliability
- Wide input voltage (110 V - 300 V)
- ECO mode for energy saving (Only available for 1-3KVA)
- Adjustable battery number only available for 6K and up models
- Input power factor correction
- Converter mode available
- Generator compatible
- Optional isolation transformer available

SPECTRA EXTERNAL RACK MOUNT 6 TO 10KVA, ONLINE UPS

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TECHNICAL SPECIFICATIONS

Model	E006SER31		E010SER31		
Phase	Single phase with ground				
Capacity	6000 VA / 4800 W		10000 VA / 8000 W		
INPUT					
Nominal Voltage	208/220/230/240VAC				
Input Voltage Range	110-300 VAC (Based on load at 50%), 176-300 VAC (Based on load at 100%)				
Frequency Range	46~54 Hz or 56~64 Hz				
Power Factor	≥ 0.99 @ Nominal Voltage (100% load)				
OUTPUT					
Output Voltage	208/220/230/240VAC				
Voltage Regulation	± 1%				
Frequency Range (Synchronized Range)	46~54 Hz or 56~64 Hz				
Frequency Range (Batt. Mode)	50 Hz or 60Hz ± 0.1 Hz				
Current Crest Ratio	3:1				
Harmonic Distortion	≤ 3 % THD (Linear Load), ≤ 5 % THD (Non-linear Load)				
Transfer Time	AC Mode to Battery Mode	Zero			
	Inverter to Bypass	Zero			
Waveform (Batt. Mode)	Pure Sinewave				
EFFICIENCY					
AC Mode	92%		93%		
Battery Mode	90%		91%		
BATTERY					
Standard Model	Battery Type	12 V / 9 AH			
	Numbers	16	20	16	20
	Typical Recharge Time	9 hours recover to 90% capacity			
	Charging Current (max.)	1.0 A / 2.0 A			
	Charging Voltage	218.4 VDC ± 1%	273 VDC ± 1%	218.4 VDC ± 1%	273 VDC ± 1%
Long-run Model	Battery Type	Depending on the capacity of external batteries			
	Numbers	16 ~ 20 (Adjustable)			
	Charging Current (max.)	1.0 A / 2.0 A / 4.0 A / 6.0 A (Adjustable, 6A is only available for 16pcs batteries)			
	Charging Voltage	273 VDC ± 1% (Based on 20pcs batteries)			
INDICATORS					
LCD	Load level, Battery level, AC mode, Battery mode, Bypass mode, and Fault indicators				
ALARM					
Battery Mode	Sounding every 4 seconds				
Low Battery	Sounding every second				
Overload	Sounding twice every second				
Fault	Continuously sounding				
PHYSICAL					
Standard Model	Dimension D X W X H (mm)	369 x 190 x 688		442 x 190 x 688	
	Net Weight (kgs)	61	74	66	76
Long-run Model	Dimension D X W X H (mm)	369 x 190 x 318		442 x 190 x 318	
	Net Weight (kgs)	12		16	
ENVIRONMENT					
Humidity	0-95% RH @ 0-50°C (non-condensing)		0-95% RH @ 0-40°C (non-condensing)		
Noise Level	Less than 55dBA @ 1 Meter		Less than 58dBA @ 1 Meter		
MANAGEMENT					
Smart RS-232 / USB	Supports Windows 2000/2003/XP/Vista/2008/7/8, Linux, Unix, and MAC				
Optional SNMP	Power management from SNMP manager and web browser				

ONLINE SINGLE PHASE UPS

GALAXY INTERNAL RACK MOUNT 1 TO 3KVA, ONLINE UPS

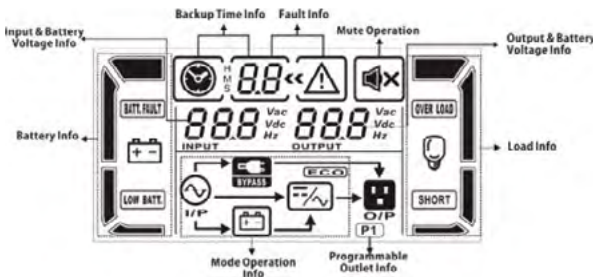
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Product ID
EXXXGIR31



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It has a rich LCD Display that provides you all the vital information and has configurable Voltage and Charging current adjustment capability. Backed up with ECO Mode for Energy Saving, Galaxy is a SMART UPS that is Network Manageable by the addition of an external SNMP Card. With an optimized and low THDi and Emergency Power Off Function, Galaxy guarantees full time protection and zero switching time.



Features

- ✓ Unity Power Factor
- ✓ True Double Conversion
- ✓ EPO Function
- ✓ Network Manageable
- ✓ ECO Mode for Energy Saving
- ✓ Low THDi to reduce power system pollution
- ✓ Adjustable charging current

STANDARDS COMPLIANCE

- EMC/Safety - EMC EN62040-2 C2

ADDITIONAL FEATURES

- 19" Inch Rack Mount Design - Vertical and Horizontal - High Convenience
- High Performance through DSP Technology
- Compatible with Generator
- Optional N + X Parallel Redundancy
- Online, Pure Sinewave Output & Zero conversion time
- 50/60 Hz Frequency Converter
- Output Power Factor 1
- Rs232 communication interface for intelligent local and remote monitoring - compatible with SNMP

GALAXY INTERNAL RACK MOUNT 1 TO 3KVA, ONLINE UPS

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TECHNICAL SPECIFICATIONS

Model	E001GIR31		E0015GIR31		E002GIR31		E003GIR31	
Phase	Single Phase with Ground							
Capacity	1000 VA / 1000 W		1500 VA / 1500 W		2000 VA / 2000 W		3000 VA / 3000 W	
INPUT								
Nominal Voltage	100/110/115/120 /127 VAC or 200/208/220/230/240 VAC							
Voltage Range	55-150 VAC ± 5% or 110-300 VAC ± 5% @ 50% Load, 80-150 VAC ± 5% or 160-300 VAC ± 5% @ 100% Load							
Frequency Range	40Hz ~ 70Hz							
Harmonic Distortion(THDi)	≤ 5% @ Nominal Input Voltage							
Power Factor	≥ 0.99 @ Nominal Voltage (100% Load)							
OUTPUT								
Output Voltage	100*/110*/115*/120/127 VAC or 200*/208*/220/230/240 VAC							
AC Voltage Regulation (Batt. Mode)	± 1%							
Frequency Range (Synchronized Range)	57 ~ 63 Hz or 47 ~ 53 Hz							
Frequency Range (Batt. Mode)	60Hz ± 0.1Hz or 50 Hz ± 0.1Hz							
Current Crest Ratio	3:1 (max.)							
Harmonic Distortion	≤ 2 % THD (Linear Load); ≤ 4 % THD (Non-Linear Load)							
Transfer Time	AC Mode to Battery Mode	Zero						
	Inverter to Bypass	4 ms (Typical)						
Waveform (Batt. Mode)	Pure Sinewave							
EFFICIENCY								
AC Mode	≥ 89% @ Full Charged Battery				≥ 91% @ Full Charged Battery			
ECO Mode	≥ 96% @ Full Charged Battery							
Battery Mode	≥ 88%				≥ 90%			
BATTERY								
Battery Type	12 V / 9 AH	12 V / 7 AH	12 V / 9 AH		12 V / 9 AH	12 V / 7 AH	12 V / 9 AH	
Numbers	2	3	3		4	6	6	
Typical Recharge Time	3 Hours Recover to 95% Capacity for Internal Battery@ 2A Charging Current							
Charging Current	100/110/115/120 /127 VAC Models: Default 2A, Max. 8A Adjustable 200/208/220/230/240 VAC Models: Default 2A, Max. 12A Adjustable					Default: 2A, Max: 8A Adjustable		
Charging Voltage	27.4 VDC ± 1%	41.1 VDC ± 1%	41.1 VDC ± 1%		54.8 VDC ± 1%	82.1 VDC ± 1%	82.1 VDC ± 1%	
PHYSICAL								
Dimension, D X W X H (mm)	410 x 438 x 88		410 x 438 x 88		510 x 438 x 88	630 x 438 x 88	630 x 438 x 88	
Net Weight (without battery) (kgs)	6.6	7.8	8.1		9.4	10.6	12.4	
Net Weight (with battery) (kgs)	11.6	14.1	15.5		19.5	23.3	27.5	
ENVIRONMENT								
Humidity	20-90 % RH @ 0- 40°C (Non-Condensing)							
Noise Level	Less than 50dBA @ 1 Meter							
Altitude	10% de-rating for over 1000m (The altitude should not exceed 3000m)							
MANAGEMENT								
Smart RS-232/USB	Supports Windows® 2000/2003/XP/Vista/2008/7/8, Linux and MAC							
Optional SNMP	Power management from SNMP manager and web browser							

ONLINE SINGLE PHASE UPS

GALAXY INTERNAL TOWER 1 TO 3KVA, ONLINE UPS

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Product ID
EXXXGIT31

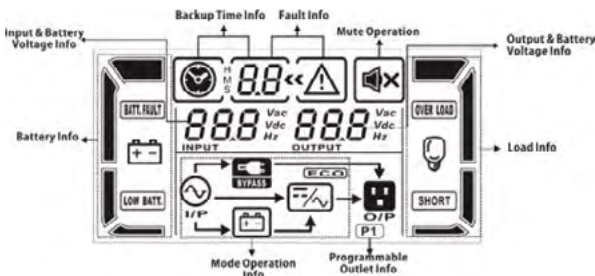


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Features

- ✓ Unity Power Factor
- ✓ True Double Conversion
- ✓ EPO Function
- ✓ Network Manageable
- ✓ ECO Mode for Energy Saving
- ✓ Low THDi to reduce power system pollution
- ✓ Adjustable charging current



STANDARDS COMPLIANCE

- EMC/Safety - EMC EN62040-2 C2

ADDITIONAL FEATURES

- Online, Pure Sinewave Output & Zero conversion time
- 50/60 Hz Frequency Converter
- Output Power Factor 1
- Rs232 communication interface for intelligent local and remote monitoring - compatible with SNMP
- High Performance through DSP Technology
- Compatible with Generator
- Optional N + X Parallel Redundancy

GALAXY INTERNAL TOWER 1 TO 3KVA, ONLINE UPS

Power Backup Solutions • Compact • Quiet • High Performance • Unity Power Factor • Pure Sinewave • Energy Saving

TECHNICAL SPECIFICATIONS

Model	E001GIT31		E0015GIT31		E002GIT31		E003GIT31	
Phase	Single Phase with Ground							
Capacity	1000 VA / 1000 W		1500 VA / 1500 W		2000 VA / 2000 W		3000 VA / 3000 W	
INPUT								
Nominal Voltage	100/110/115/120 /127 VAC or 200/208/220/230/240 VAC							
Voltage Range	55-150 VAC ± 5% or 110-300 VAC ± 5% @ 50% Load, 80-150 VAC ± 5% or 160-300 VAC ± 5% @ 100% Load							
Frequency Range	40Hz ~ 70Hz							
Harmonic Distortion(THDi)	≤ 5% @ Nominal Input Voltage							
Power Factor	≥ 0.99 @ Nominal Voltage (100% Load)							
OUTPUT								
Output Voltage	100*/110*/115*/120/127 VAC or 200*/208*/220/230/240 VAC							
AC Voltage Regulation (Batt. Mode)	± 1%							
Frequency Range (Synchronized Range)	57 ~ 63 Hz or 47 ~ 53 Hz							
Frequency Range (Batt. Mode)	60Hz ± 0.1Hz or 50 Hz ± 0.1Hz							
Current Crest Ratio	3:1 (max.)							
Harmonic Distortion	≤ 2 % THD (Linear Load); ≤ 4 % THD (Non-Linear Load)							
Transfer Time	AC Mode to Battery Mode	Zero						
	Inverter to Bypass	4 ms (Typical)						
Waveform (Batt. Mode)	Pure Sinewave							
EFFICIENCY								
AC Mode	≥ 89% @ Full Charged Battery				≥ 91% @ Full Charged Battery			
ECO Mode	≥ 96% @ Full Charged Battery							
Battery Mode	≥ 88%				≥ 90%			
BATTERY								
Battery Type	12 V / 9 AH	12 V / 7 AH	12 V / 9 AH		12 V / 9 AH	12 V / 7 AH	12 V / 9 AH	
Numbers	2	3	3		4	6	6	
Typical Recharge Time	3 Hours Recover to 95% Capacity for Internal Battery@ 2A Charging Current							
Charging Current	100/110/115/120 /127 VAC Models: Default 2A, Max. 8A Adjustable 200/208/220/230/240 VAC Models: Default 2A, Max. 12A Adjustable					Default: 2A, Max: 8A Adjustable		
Charging Voltage	27.4 VDC ± 1%	41.1 VDC ± 1%	41.1 VDC ± 1%		54.8 VDC ± 1%	82.1 VDC ± 1%	82.1 VDC ± 1%	
PHYSICAL								
Dimension, D X W X H (mm)	410 x 438 x 88		410 x 438 x 88		510 x 438 x 88	630 x 438 x 88	630 x 438 x 88	
Net Weight (without battery) (kgs)	6.6	7.8	8.1		9.4	10.6	12.4	
Net Weight (with battery) (kgs)	11.6	14.1	15.5		19.5	23.3	27.5	
ENVIRONMENT								
Humidity	20-90 % RH @ 0- 40°C (Non-Condensing)							
Noise Level	Less than 50dBA @ 1 Meter							
Altitude	10% de-rating for over 1000m (The altitude should not exceed 3000m)							
MANAGEMENT								
Smart RS-232/USB	Supports Windows® 2000/2003/XP/Vista/2008/7/8, Linux and MAC							
Optional SNMP	Power management from SNMP manager and web browser							

ONLINE SINGLE PHASE UPS

GALAXY INTERNAL RACK MOUNT 6 TO 10KVA, ONLINE UPS

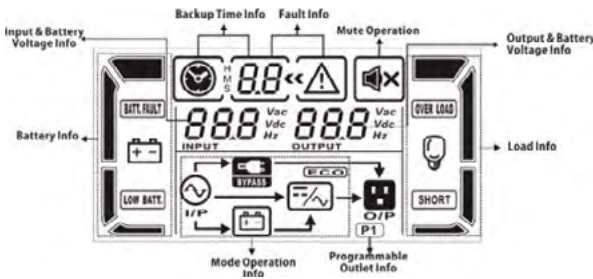
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Product ID
EXXXGIR31



ExTell Galaxy Single Phase Online UPS is the ideal protection and power backup device for your sensitive and critical loads. With a true Double-Conversion online design, Galaxy gives you a pure sinewave output with a Unity Power Factor Load Carrying capacity.

It has a rich LCD Display that provides you all the vital information and has configurable Voltage and Charging current adjustment capability. Backed up with ECO Mode for Energy Saving, Galaxy is a SMART UPS that is Network Manageable by the addition of an external SNMP Card. With an optimized and low THDi and Emergency Power Off Function, Galaxy guarantees full time protection and zero switching time.



Features

- ✓ Unity Power Factor
- ✓ True Double Conversion
- ✓ EPO Function
- ✓ Network Manageable
- ✓ ECO Mode for Energy Saving
- ✓ Low THDi to reduce power system pollution
- ✓ Adjustable charging current

STANDARDS COMPLIANCE

- EMC/Safety - EMC EN62040-2 C2

ADDITIONAL FEATURES

- 19" Inch Rack Mount Design - Vertical and Horizontal - High Convenience
- High Performance through DSP Technology
- Compatible with Generator
- Optional N + X Parallel Redundancy
- Online, Pure Sinewave Output & Zero conversion time
- 50/60 Hz Frequency Converter
- Output Power Factor 1
- Rs232 communication interface for intelligent local and remote monitoring - compatible with SNMP

GALAXY INTERNAL RACK MOUNT 6 TO 10KVA, ONLINE UPS

Power Backup Solutions • Compact • Quiet • High Performance • Unity Power Factor • Pure Sinewave • Energy Saving

TECHNICAL SPECIFICATIONS

Model	E006GIR31		E010GIR31	
Phase	Single Phase In / Single Phase Out			
Capacity	6000 VA / 6000 W		10000 VA / 10000 W	
INPUT				
Nominal Voltage	208/220/230/240 VAC			
Voltage Range	110~300VAC ± 3 % at 50% Load, 176~300VAC ± 3 % at 100% Load			
Frequency Range	46~54 Hz or 56~64 Hz			
Power Factor	≥ 0.99 @ Full Load			
Harmonic Distortion(THDi)	< 4% @100% Load, < 6% @50% Load			
OUTPUT				
Output Voltage	208*/220/230/240 VAC			
AC Voltage Regulation (Batt. Mode)	± 1%			
Frequency Range (Synchronized Range)	46~54 Hz or 56~64 Hz			
Frequency Range (Batt. Mode)	50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz			
Current Crest Ratio	3:1 (max.)			
Harmonic Distortion	≤ 1 % THD (Linear Load), ≤ 4 % THD (Non-linear Load)			
Transfer Time	AC Mode to Battery Mode	Zero		
	Inverter to Bypass	Zero		
Waveform (Batt. Mode)	Pure Sinewave			
Overload	AC Mode	100%~110%: 10min ; 110%~130%: 1min ; >130% : 1sec		
	Battery Mode	100%~110%: 30sec ; 110%~130%: 10sec ; >130% : 1sec		
EFFICIENCY				
AC Mode	94%			
Battery Mode	91%			
BATTERY				
Standard Model	Battery Type	12 V / 7 AH		12 V / 9 AH
	Numbers	16		
	Typical Recharge Time	9 Hours Recover to 90% Capacity		
	Charging Current (max.)	1.0 A		
	Charging Voltage	218.4 VDC ± 1%		
Long-run Model	Battery Type	Depending on Applications		
	Numbers	16-20**		
	Charging Current (max.)	4.0 A		
	Charging Voltage	(13.65VDC x Battery Number) ± 1%		
PHYSICAL				
Standard Model	Dimension D X W X H (mm)	369 x 190 x 688		442 x 190 x 688
	Net Weight (kgs)	54		66
Long-run Model	Dimension D X W X H (mm)	369 x 190 x 318		442 x 190 x 318
	Net Weight (kgs)	13		16
ENVIRONMENT				
Operation Humidity	20-90 % RH @ 0- 40°C (non-condensing)			
Noise Level	Less than 55dBa @ 1 Meter		Less than 58dB @ 1 Meter	
MANAGEMENT				
Smart RS-232 / USB	Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8, Linux and MAC			
Optional SNMP	Power management from SNMP manager and web browser			

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EXXXGIT31

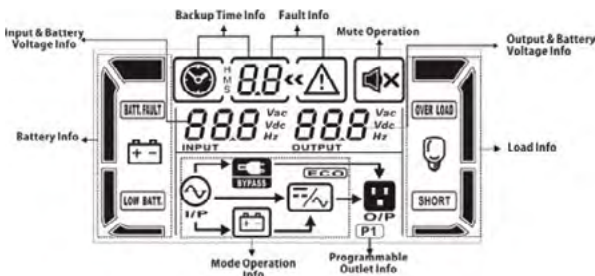


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Features

- ✓ Unity Power Factor
- ✓ True Double Conversion
- ✓ EPO Function
- ✓ Network Manageable
- ✓ ECO Mode for Energy Saving
- ✓ Low THDi to reduce power system pollution
- ✓ Adjustable charging current



STANDARDS COMPLIANCE

- EMC/Safety - EMC EN62040-2 C2

ADDITIONAL FEATURES

- 19" Inch Rack Mount Design - Vertical and Horizontal - High Convenience
- High Performance through DSP Technology
- Compatible with Generator
- Optional N + X Parallel Redundancy
- Online, Pure Sinewave Output & Zero conversion time
- 50/60 Hz Frequency Converter
- Output Power Factor 1
- Rs232 communication interface for intelligent local and remote monitoring - compatible with SNMP

GALAXY INTERNAL TOWER 6 TO 10KVA, ONLINE UPS

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TECHNICAL SPECIFICATIONS

Model	E006GIT31		E010GIT31	
Phase	Single Phase In / Single Phase Out			
Capacity	6000 VA / 6000 W		10000 VA / 10000 W	
INPUT				
Nominal Voltage	208/220/230/240 VAC			
Voltage Range	110~300VAC ± 3 % at 50% Load, 176~300VAC ± 3 % at 100% Load			
Frequency Range	46~54 Hz or 56~64 Hz			
Power Factor	≥ 0.99 @ Full Load			
Harmonic Distortion(THDi)	< 4% @100% Load, < 6% @50% Load			
OUTPUT				
Output Voltage	208*/220/230/240 VAC			
AC Voltage Regulation (Batt. Mode)	± 1%			
Frequency Range (Synchronized Range)	46~54 Hz or 56~64 Hz			
Frequency Range (Batt. Mode)	50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz			
Current Crest Ratio	3:1 (max.)			
Harmonic Distortion	≤ 1 % THD (Linear Load), ≤ 4 % THD (Non-linear Load)			
Transfer Time	AC Mode to Battery Mode	Zero		
	Inverter to Bypass	Zero		
Waveform (Batt. Mode)	Pure Sinewave			
Overload	AC Mode	100%~110%: 10min ; 110%~130%: 1min ; >130% : 1sec		
	Battery Mode	100%~110%: 30sec ; 110%~130%: 10sec ; >130% : 1sec		
EFFICIENCY				
AC Mode	94%			
Battery Mode	91%			
BATTERY				
Standard Model	Battery Type	12 V / 7 AH		12 V / 9 AH
	Numbers	16		
	Typical Recharge Time	9 Hours Recover to 90% Capacity		
	Charging Current (max.)	1.0 A		
	Charging Voltage	218.4 VDC ± 1%		
Long-run Model	Battery Type	Depending on Applications		
	Numbers	16-20**		
	Charging Current (max.)	4.0 A		
	Charging Voltage	(13.65VDC x Battery Number) ± 1%		
PHYSICAL				
Standard Model	Dimension D X W X H (mm)	369 x 190 x 688		442 x 190 x 688
	Net Weight (kgs)	54		66
Long-run Model	Dimension D X W X H (mm)	369 x 190 x 318		442 x 190 x 318
	Net Weight (kgs)	13		16
ENVIRONMENT				
Operation Humidity	20-90 % RH @ 0- 40°C (non-condensing)			
Noise Level	Less than 55dBA @ 1 Meter		Less than 58dB @ 1 Meter	
MANAGEMENT				
Smart RS-232 / USB	Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8, Linux and MAC			
Optional SNMP	Power management from SNMP manager and web browser			

ONLINE SINGLE PHASE UPS

GALAXY EXTERNAL RACK MOUNT 1 TO 3KVA, ONLINE UPS

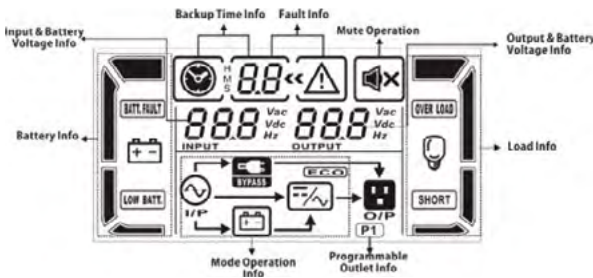
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Features

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- ✓ Low THDi to reduce power system pollution
- ✓ Adjustable charging current

STANDARDS COMPLIANCE

- EMC/Safety - EMC EN62040-2 C2

ADDITIONAL FEATURES

- 19" Inch Rack Mount Design - Vertical and Horizontal - High Convenience
- High Performance through DSP Technology
- Compatible with Generator
- Optional N + X Parallel Redundancy
- Online, Pure Sinewave Output & Zero conversion time
- 50/60 Hz Frequency Converter
- Output Power Factor 1
- Rs232 communication interface for intelligent local and remote monitoring - compatible with SNMP

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TECHNICAL SPECIFICATIONS

Model	E001GER31		E0015GER31		E002GER31		E003GER31	
Phase	Single Phase with Ground							
Capacity	1000 VA / 1000 W		1500 VA / 1500 W		2000 VA / 2000 W		3000 VA / 3000 W	
INPUT								
Nominal Voltage	100/110/115/120 /127 VAC or 200/208/220/230/240 VAC							
Voltage Range	55-150 VAC ± 5% or 110-300 VAC ± 5% @ 50% Load, 80-150 VAC ± 5% or 160-300 VAC ± 5% @ 100% Load							
Frequency Range	40Hz ~ 70Hz							
Harmonic Distortion(THDi)	≤ 5% @ Nominal Input Voltage							
Power Factor	≥ 0.99 @ Nominal Voltage (100% Load)							
OUTPUT								
Output Voltage	100*/110*/115*/120/127 VAC or 200*/208*/220/230/240 VAC							
AC Voltage Regulation (Batt. Mode)	± 1%							
Frequency Range (Synchronized Range)	57 ~ 63 Hz or 47 ~ 53 Hz							
Frequency Range (Batt. Mode)	60Hz ± 0.1Hz or 50 Hz ± 0.1Hz							
Current Crest Ratio	3:1 (max.)							
Harmonic Distortion	≤ 2 % THD (Linear Load); ≤ 4 % THD (Non-Linear Load)							
Transfer Time	AC Mode to Battery Mode	Zero						
	Inverter to Bypass	4 ms (Typical)						
Waveform (Batt. Mode)	Pure Sinewave							
EFFICIENCY								
AC Mode	≥ 89% @ Full Charged Battery				≥ 91% @ Full Charged Battery			
ECO Mode	≥ 96% @ Full Charged Battery							
Battery Mode	≥ 88%				≥ 90%			
BATTERY								
Battery Type	12 V / 9 AH	12 V / 7 AH	12 V / 9 AH		12 V / 9 AH	12 V / 7 AH	12 V / 9 AH	
Numbers	2	3	3		4	6	6	
Typical Recharge Time	3 Hours Recover to 95% Capacity for Internal Battery@ 2A Charging Current							
Charging Current	100/110/115/120 /127 VAC Models: Default 2A, Max. 8A Adjustable					200/208/220/230/240 VAC Models: Default 2A, Max. 12A Adjustable		
Charging Voltage	27.4 VDC ± 1%	41.1 VDC ± 1%	41.1 VDC ± 1%		54.8 VDC ± 1%	82.1 VDC ± 1%	82.1 VDC ± 1%	
PHYSICAL								
Dimension, D X W X H (mm)	410 x 438 x 88		410 x 438 x 88		510 x 438 x 88	630 x 438 x 88	630 x 438 x 88	
Net Weight (without battery) (kgs)	6.6	7.8	8.1		9.4	10.6	12.4	
Net Weight (with battery) (kgs)	11.6	14.1	15.5		19.5	23.3	27.5	
ENVIRONMENT								
Humidity	20-90 % RH @ 0- 40°C (Non-Condensing)							
Noise Level	Less than 50dBA @ 1 Meter							
Altitude	10% de-rating for over 1000m (The altitude should not exceed 3000m)							
MANAGEMENT								
Smart RS-232/USB	Supports Windows® 2000/2003/XP/Vista/2008/7/8, Linux and MAC							
Optional SNMP	Power management from SNMP manager and web browser							

GALAXY EXTERNAL TOWER 1 TO 3KVA, ONLINE UPS

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Product ID
EXXXGET31

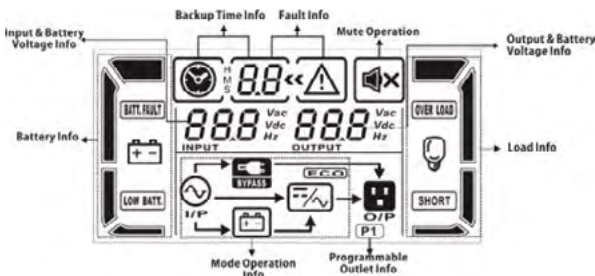


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- ✓ Adjustable charging current



STANDARDS COMPLIANCE

- EMC/Safety - EMC EN62040-2 C2

ADDITIONAL FEATURES

- Online, Pure Sinewave Output & Zero conversion time
- 50/60 Hz Frequency Converter
- Output Power Factor 1
- Rs232 communication interface for intelligent local and remote monitoring - compatible with SNMP
- High Performance through DSP Technology
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Voltage Range	55-150 VAC ± 5% or 110-300 VAC ± 5% @ 50% Load, 80-150 VAC ± 5% or 160-300 VAC ± 5% @ 100% Load							
Frequency Range	40Hz ~ 70Hz							
Harmonic Distortion(THDi)	≤ 5% @ Nominal Input Voltage							
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OUTPUT								
Output Voltage	100*/110*/115*/120/127 VAC or 200*/208*/220/230/240 VAC							
AC Voltage Regulation (Batt. Mode)	± 1%							
Frequency Range (Synchronized Range)	57 ~ 63 Hz or 47 ~ 53 Hz							
Frequency Range (Batt. Mode)	60Hz ± 0.1Hz or 50 Hz ± 0.1Hz							
Current Crest Ratio	3:1 (max.)							
Harmonic Distortion	≤ 2 % THD (Linear Load); ≤ 4 % THD (Non-Linear Load)							
Transfer Time	AC Mode to Battery Mode	Zero						
	Inverter to Bypass	4 ms (Typical)						
Waveform (Batt. Mode)	Pure Sinewave							
EFFICIENCY								
AC Mode	≥ 89% @ Full Charged Battery				≥ 91% @ Full Charged Battery			
ECO Mode	≥ 96% @ Full Charged Battery							
Battery Mode	≥ 88%				≥ 90%			
BATTERY								
Battery Type	12 V / 9 AH	12 V / 7 AH	12 V / 9 AH		12 V / 9 AH	12 V / 7 AH	12 V / 9 AH	
Numbers	2	3	3		4	6	6	
Typical Recharge Time	3 Hours Recover to 95% Capacity for Internal Battery@ 2A Charging Current							
Charging Current	100/110/115/120 /127 VAC Models: Default 2A, Max. 8A Adjustable					200/208/220/230/240 VAC Models: Default 2A, Max. 12A Adjustable		
Charging Voltage	27.4 VDC ± 1%	41.1 VDC ± 1%	41.1 VDC ± 1%		54.8 VDC ± 1%	82.1 VDC ± 1%	82.1 VDC ± 1%	
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ENVIRONMENT								
Humidity	20-90 % RH @ 0- 40°C (Non-Condensing)							
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MANAGEMENT								
Smart RS-232/USB	Supports Windows® 2000/2003/XP/Vista/2008/7/8, Linux and MAC							
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ONLINE SINGLE PHASE UPS

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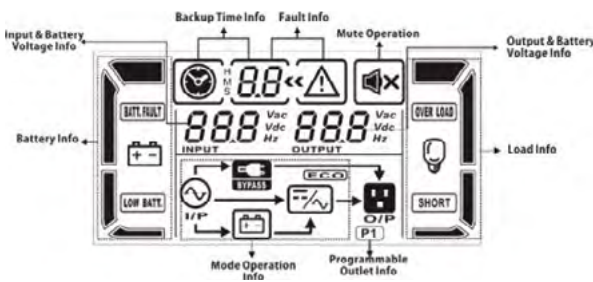
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- ✓ Adjustable charging current

STANDARDS COMPLIANCE

- EMC/Safety - EMC EN62040-2 C2

HIGH PERFORMANCE, HIGH EFFICIENCY

- Double Conversion Online UPS
- Close to 0.99 Power Factor
- High Efficiency

EXPANDABLE

- More runtime can be added by increasing the external battery modules
- Long battery life

ADDITIONAL FEATURES

- 19" Inch Rack Mount Design - Vertical and Horizontal - High Convenience
- High Performance through DSP Technology
- Compatible with Generator
- Optional N + X Parallel Redundancy
- Online, Pure Sinewave Output & Zero conversion time
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Frequency Range	46~54 Hz or 56~64 Hz			
Power Factor	≥ 0.99 @ Full Load			
Harmonic Distortion(THDi)	< 4% @100% Load, < 6% @50% Load			
OUTPUT				
Output Voltage	208*/220/230/240 VAC			
AC Voltage Regulation (Batt. Mode)	± 1%			
Frequency Range (Synchronized Range)	46~54 Hz or 56~64 Hz			
Frequency Range (Batt. Mode)	50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz			
Current Crest Ratio	3:1 (max.)			
Harmonic Distortion	≤ 1 % THD (Linear Load), ≤ 4 % THD (Non-linear Load)			
Transfer Time	AC Mode to Battery Mode	Zero		
	Inverter to Bypass	Zero		
Waveform (Batt. Mode)	Pure Sinewave			
Overload	AC Mode	100%~110%: 10min ; 110%~130%: 1min ; >130% : 1sec		
	Battery Mode	100%~110%: 30sec ; 110%~130%: 10sec ; >130% : 1sec		
EFFICIENCY				
AC Mode	94%			
Battery Mode	91%			
BATTERY				
Standard Model	Battery Type	12 V / 7 AH		12 V / 9 AH
	Numbers	16		
	Typical Recharge Time	9 Hours Recover to 90% Capacity		
	Charging Current (max.)	1.0 A		
	Charging Voltage	218.4 VDC ± 1%		
Long-run Model	Battery Type	Depending on Applications		
	Numbers	16-20**		
	Charging Current (max.)	4.0 A		
	Charging Voltage	(13.65VDC x Battery Number) ± 1%		
PHYSICAL				
Standard Model	Dimension D X W X H (mm)	369 x 190 x 688		442 x 190 x 688
	Net Weight (kgs)	54		66
Long-run Model	Dimension D X W X H (mm)	369 x 190 x 318		442 x 190 x 318
	Net Weight (kgs)	13		16
ENVIRONMENT				
Operation Humidity	20-90 % RH @ 0- 40°C (non-condensing)			
Noise Level	Less than 55dBA @ 1 Meter		Less than 58dB @ 1 Meter	
MANAGEMENT				
Smart RS-232 / USB	Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8, Linux and MAC			
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EXXXGET31

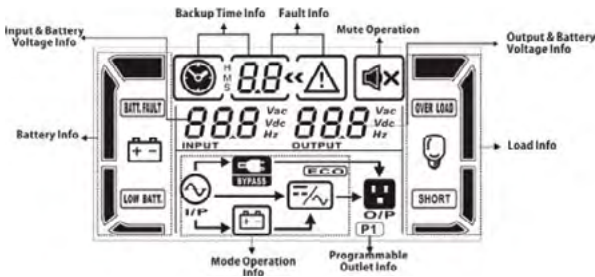


ExTell Galaxy Single Phase Online UPS is the ideal protection and power backup device for your sensitive and critical loads. With a true Double-Conversion online design, Galaxy gives you a pure sinewave output with a Unity Power Factor Load Carrying capacity.

It has a rich LCD Display that provides you all the vital information and has configurable Voltage and Charging current adjustment capability. Backed up with ECO Mode for Energy Saving, Galaxy is a SMART UPS that is Network Manageable by the addition of an external SNMP Card. With an optimized and low THDi and Emergency Power Off Function, Galaxy guarantees full time protection and zero switching time.

Features

- ✓ Unity Power Factor
- ✓ True Double Conversion
- ✓ EPO Function
- ✓ Network Manageable
- ✓ ECO Mode for Energy Saving
- ✓ Low THDi to reduce power system pollution
- ✓ Adjustable charging current



STANDARDS COMPLIANCE

- EMC/Safety - EMC EN62040-2 C2

HIGH PERFORMANCE, HIGH EFFICIENCY

- Double Conversion Online UPS
- High Efficiency
- Close to 0.99 Power Factor

EXPANDABLE

- More runtime can be added by increasing the external battery modules
- Long battery life

ADDITIONAL FEATURES

- Online, Pure Sinewave Output & Zero conversion time
- 50/60 Hz Frequency Converter
- Output Power Factor 1
- Rs232 communication interface for intelligent local and remote monitoring - compatible with SNMP
- High Performance through DSP Technology
- Compatible with Generator
- Optional N + X Parallel Redundancy

GALAXY EXTERNAL TOWER 6 TO 10KVA, ONLINE UPS

Power Backup Solutions • Compact • Quiet • High Performance • Unity Power Factor • Pure Sinewave • Energy Saving

TECHNICAL SPECIFICATIONS

Model	E006GET31		E010GET31	
Phase	Single Phase In / Single Phase Out			
Capacity	6000 VA / 6000 W		10000 VA / 10000 W	
INPUT				
Nominal Voltage	208/220/230/240 VAC			
Voltage Range	110~300VAC ± 3 % at 50% Load, 176~300VAC ± 3 % at 100% Load			
Frequency Range	46~54 Hz or 56~64 Hz			
Power Factor	≥ 0.99 @ Full Load			
Harmonic Distortion(THDi)	< 4% @100% Load, < 6% @50% Load			
OUTPUT				
Output Voltage	208*/220/230/240 VAC			
AC Voltage Regulation (Batt. Mode)	± 1%			
Frequency Range (Synchronized Range)	46~54 Hz or 56~64 Hz			
Frequency Range (Batt. Mode)	50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz			
Current Crest Ratio	3:1 (max.)			
Harmonic Distortion	≤ 1 % THD (Linear Load), ≤ 4 % THD (Non-linear Load)			
Transfer Time	AC Mode to Battery Mode	Zero		
	Inverter to Bypass	Zero		
Waveform (Batt. Mode)	Pure Sinewave			
Overload	AC Mode	100%~110%: 10min ; 110%~130%: 1min ; >130% : 1sec		
	Battery Mode	100%~110%: 30sec ; 110%~130%: 10sec ; >130% : 1sec		
EFFICIENCY				
AC Mode	94%			
Battery Mode	91%			
BATTERY				
Standard Model	Battery Type	12 V / 7 AH		12 V / 9 AH
	Numbers	16		
	Typical Recharge Time	9 Hours Recover to 90% Capacity		
	Charging Current (max.)	1.0 A		
	Charging Voltage	218.4 VDC ± 1%		
Long-run Model	Battery Type	Depending on Applications		
	Numbers	16-20**		
	Charging Current (max.)	4.0 A		
	Charging Voltage	(13.65VDC x Battery Number) ± 1%		
PHYSICAL				
Standard Model	Dimension D X W X H (mm)	369 x 190 x 688		442 x 190 x 688
	Net Weight (kgs)	54		66
Long-run Model	Dimension D X W X H (mm)	369 x 190 x 318		442 x 190 x 318
	Net Weight (kgs)	13		16
ENVIRONMENT				
Operation Humidity	20-90 % RH @ 0- 40°C (non-condensing)			
Noise Level	Less than 55dBA @ 1 Meter		Less than 58dB @ 1 Meter	
MANAGEMENT				
Smart RS-232 / USB	Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8, Linux and MAC			
Optional SNMP	Power management from SNMP manager and web browser			

ONLINE THREE PHASE UPS

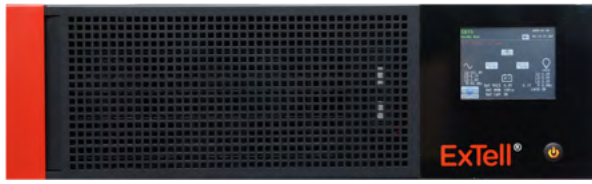
MAGNA EXTERNAL RACK MOUNT 10 TO 60KVA, ONLINE UPS

Power Backup Solutions • High Performance • Touch LCD Display • Unity Power Factor • Pure Sinewave • Programmable Outlets

Product ID
EXXXMER33



ExTell Magna Three Phase Online UPS is the ideal protection and power backup device for your sensitive and critical loads. With a true Double-Conversion online design, Magna gives you a pure sinewave output with a Unity Power Factor Load Carrying capacity.



It has a rich LCD Display that provides you all the vital information and has configurable Voltage and Charging current adjustment capability. Backed up with ECO Mode for Energy Saving, Magna is a SMART UPS that is Network Manageable by the addition of an external SNMP Card. With an optimized and low THDi and Emergency Power Off Function, Magna guarantees full time protection and zero switching time.



With an optional Parallel option, Magna can support for larger kVA installations with Parallel UPS Solution design for redundancy.

Features

- ✓ Touch LCD Display
- ✓ Programmable Power Outlets
- ✓ Unity Power Factor
- ✓ True Double Conversion
- ✓ Low THDi to reduce power system pollution
- ✓ Network Manageable
- ✓ ECO Mode for Energy Saving
- ✓ Adjustable charging current
- ✓ EPO Function

STANDARDS COMPLIANCE

- EMC/Safety - EMC EN62040-2 C2

ADDITIONAL FEATURES

- 19" Inch Rack Mount Design - Vertical and Horizontal - High Convenience
- High Performance through DSP Technology
- Compatible with Generator
- Optional N + X Parallel Redundancy
- Online, Pure Sinewave Output & Zero conversion time
- 50/60 Hz Frequency Converter
- Output Power Factor 1
- Rs232 communication interface for intelligent local and remote monitoring - compatible with SNMP

MAGNA EXTERNAL RACK MOUNT 10 TO 60KVA, ONLINE UPS

Power Backup Solutions • High Performance • Touch LCD Display • Unity Power Factor • Pure Sinewave • Programmable Outlets

TECHNICAL SPECIFICATIONS

Model	E010MER33	E015MER33	E020MER33	E030MER33	E040MER33	E060MER33
Phase	3-Phase In / 3-Phase Out					
Capacity	10KVA/10KW	15KVA/15KW	20KVA/20KW	30KVA/30KW	40KVA/40KW	60KVA/60KW
Parallel Capability	4					
INPUT						
Nominal Voltage	3 x 400 VAC (3Ph+N)					
Voltage Range	190-520 VAC (3-phase) @ 50% Load, 305-478 VAC (3-phase) @ 100% Load					
Frequency Range	46~54 Hz or 56~64Hz					
Power Factor	≥ 0.99 @ 100% Load					
OUTPUT						
Output Voltage	3 x 360*/380/400/415 VAC (3Ph+N)					
AC Voltage Regulation (Batt. Mode)	± 1%					
Frequency Range (Synchronized Range)	46~54Hz or 56~64Hz					
Frequency Range (Batt. Mode)	50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz					
Current Crest Ratio	3:1 (max.)					
Harmonic Distortion	≤ 2 % THD (Linear Load), ≤ 5 % THD (Non-linear Load)					
Transfer Time	AC mode to Battery mode	Zero				
	Inverter to Bypass	Zero				
Waveform (Batt. Mode)	Pure Sine Wave					
Overload	AC Mode	100-110% for 60 min, 110-125% for 10 min, 125%~150% for 1 min; >150% immediately				
	Battery Mode	100-110% for 60 min, 110-125% for 10 min, 125%~150% for 1 min; >150% immediately				
EFFICIENCY						
AC Mode	95.5%					
ECO Mode	98.5%					
Battery Mode	94.5%					
BATTERY						
Battery Type	Depending on the applications					
Numbers	20 pcs	32~40 pcs (Adjustable)				
Charging Current (max.)	1A ~ 12A (Adjustable)				1A ~ 16A (Adjustable)	1A ~ 18A (Adjustable)
Charging Voltage	+/-13.65 VDC x N (N=10)	+/-13.65V x N (N=16~20)				
ALARM						
Battery Mode	Every 4 seconds					
Low Battery	Every second					
Overload	Twice every second					
Fault	Continuous alarm					
PHYSICAL						
Dimension, D X W X H (mm)	680 x 438 x 133 [3U]			797 x 438 x 176(4U)		
Net Weight (kgs)	26	28	28	40	40	45
ENVIRONMENT						
Operation Temperature	0 ~ 40°C					
Operation Humidity	0 ~ 95% non-condensing					
Noise Level	< 62dB @ 1 Meter	< 65dB @ 1 Meter	< 65dB @ 1 Meter	< 65dB @ 1 Meter	< 70dB @ 1 Meter	
MANAGEMENT						
Smart RS-232/USB	Supports Windows® family, Linux and MAC					
Optional SNMP	Power management from SNMP manager and web browser					

ONLINE THREE PHASE UPS

MAGNA EXTERNAL TOWER 80 TO 200KVA, ONLINE UPS

Power Backup Solutions • High Performance • Touch LCD Display • Unity Power Factor • Pure Sinewave • Programmable Outlets

Product ID
EXXXMET33



ExTell Magna Three Phase Online UPS is the ideal protection and power backup device for your sensitive and critical loads. With a true Double-Conversion online design, Magna gives you a pure sinewave output with a Unity Power Factor Load Carrying capacity.

It has a rich LCD Display that provides you all the vital information and has configurable Voltage and Charging current adjustment capability. Backed up with ECO Mode for Energy Saving, Magna is a SMART UPS that is Network Manageable by the addition of an external SNMP Card. With an optimized and low THDi and Emergency Power Off Function, Magna guarantees full time protection and zero switching time.

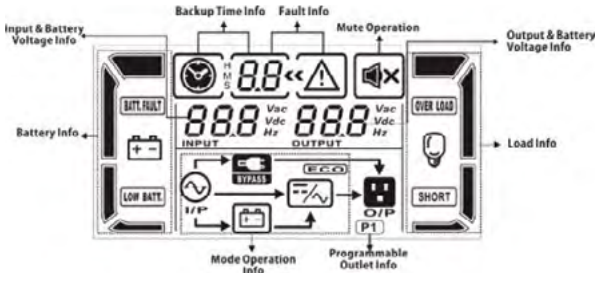
With an optional Parallel option, Magna can support for larger kVA installations with Parallel UPS Solution design for redundancy.

Features

- ✓ Touch LCD Display
- ✓ Programmable Power Outlets
- ✓ Unity Power Factor
- ✓ True Double Conversion
- ✓ Low THDi to reduce power system pollution
- ✓ Network Manageable
- ✓ ECO Mode for Energy Saving
- ✓ Adjustable charging current
- ✓ EPO Function

STANDARDS COMPLIANCE

- EMC/Safety - EMC EN62040-2 C2



ADDITIONAL FEATURES

- 19" Inch Rack Mount Design - Vertical and Horizontal - High Convenience
- High Performance through DSP Technology
- Compatible with Generator
- Optional N + X Parallel Redundancy
- Online, Pure Sinewave Output & Zero conversion time
- 50/60 Hz Frequency Converter
- Output Power Factor 1
- Rs232 communication interface for intelligent local and remote monitoring - compatible with SNMP

MAGNA EXTERNAL TOWER 80 TO 200KVA, ONLINE UPS

Power Backup Solutions • High Performance • Touch LCD Display • Unity Power Factor • Pure Sinewave • Programmable Outlets

TECHNICAL SPECIFICATIONS

Model	E080MET33	E100MET33	E120MET33	E160MET33	E200MET33
Phase	3-Phase In / 3-Phase Out				
Capacity	80KVA / 80KW	100KVA / 90KW	120KVA / 108KW	160KVA / 144KW	200KVA / 180KW
Parallel Capability	6				2
INPUT					
Nominal Voltage	3 x 380/400/415 VAC (3Ph+N)		3 x 380/400/415 VAC (3Ph+N)		
Voltage Range	-30% ~ +20%		208-304 VAC @ 70% load 305-478 VAC @ 100% load		
Frequency Range	40~70 Hz		40~70 Hz		
Power Factor	≥ 0.99 @ 100% Load		≥ 0.99 @ 100% load		
Harmonic Distortion (THDi)	< 3% at full linear load		< 3% at full linear load		
OUTPUT					
Output Voltage	3 x 360*/380/400/415 VAC (3Ph+N)		3 x 380/400/415 VAC (3Ph+N)		
AC Voltage Regulation (Batt. Mode)	± 1%		± 1%		
Frequency Range (Synchronized Range)	46~54Hz or 56~64Hz		46~54Hz or 56~64Hz		
Frequency Range (Batt. Mode)	50/60 Hz ± 1%		50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz		
Current Crest Ratio	3:1 (max.)		3:1 (max.)		
Harmonic Distortion (THDv)	≤ 1% THD (Linear Load) ≤ 3% THD (Non-linear Load)		≤ 2 % THD (Linear Load) ≤ 4 % THD (Non-linear Load)		
Transfer Time	AC mode to Battery mode	Zero			
	Inverter to Bypass	Zero			
Waveform (Batt. Mode)	Pure Sine Wave				
Overload	100-110% for 60 min, 111-125% for 10 min, 126%~150% for 1 min; >150% for 400ms		105-110% for 1 hr, 111-125% for 10 min, 126-150% for 1 min, >150% for 200ms		
BYPASS					
Nominal Voltage	3 x 380/400/415 VAC (3Ph+N)		3 x 380/400/415 VAC (3Ph+N)		
Voltage Range	-30% ~ +20% (Adjustable)		-30% ~ +20%		
Frequency Range (Synchronized Range)	46~54Hz or 56~64Hz		+/- 1Hz, +/- 2Hz, +/- 4Hz (default: 4Hz)		
Overload Capability	> 130% 1 minute (default) Continuously working until breaker protection (optional)		105-110% for 1 hr, 111-125% for 10 min, 126-150% for 1 min, >150% for 200ms		
EFFICIENCY					
AC Mode	96%		94%		
ECO Mode	99%		98%		
Battery Mode	96%		93%		
BATTERY					
Long-run Model	Battery Type	Depending on the capacity of external batteries			
	Numbers	32~40 pcs (Adjustable)			
	Charging Current (max.)	2A ~ 32A (Adjustable)	24A	32A	40A
	Charging Voltage	+/-13.7V*N (N = 16~20)			
INDICATORS					
LCD Panel	UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions		10" Touch Type color LCD		
ALARM					
Battery Mode	Sounding every 4 seconds		Sounding every 2 seconds		
Low Battery	Sounding every second		Sounding every 0.5 second		
Overload	Sounding twice every second		Sounding every second		
Fault	Continuously sounding		Continuously sounding		
PHYSICAL					
Long-run Model	Dimension D X W X H (mm)	940 x 567 x 1015			1040 x 567 x 1452
	Net Weight (kgs)	113	199	234	306
ENVIRONMENT					
Operation Temperature	0 ~ 40°C				
Operation Humidity	< 95% and non-condensing				
Altitude	0 ~ 1500m at full load		0 ~ 1000m at full load		
Noise Level	Less than 70dB @ 1 Meter			Less than 73dB @ 1 Meter	
MANAGEMENT					
Smart RS-232/USB	Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8, Linux and MAC				
Optional SNMP	Power management from SNMP manager and web browser				

NOVA MODULAR 60 TO 140KVA, ONLINE MODULAR UPS

Power Backup Solutions • High Performance • Touch LCD Display • Unity Power Factor • Pure Sinewave • Programmable Outlets

Product ID
EXXXNET33-XXU



ExTell Nova Modular Online UPS is the ideal protection and power backup device for your sensitive and critical loads in a Data Center Environment. With a true Double-Conversion online design, Nova gives you a pure sinewave output with a Unity Power Factor Load Carrying capacity.

It has a rich LCD Display that provides you all the vital information and has configurable Voltage and Charging current adjustment capability. Nova is a SMART UPS that is Network Manageable by the addition of an external SNMP Card.

Nova can be easily upgraded by adding plug and play 30kVA Modules to increase the capacity as per requirement. With a built in Maintenance By Pass switch, any maintenance work can be easily taken up without any disruption to the system operation.

Features

- ✓ Touch LCD Display
- ✓ Unity Power Factor
- ✓ True Double Conversion
- ✓ Network Manageable
- ✓ Low MTTR with a Modular Design
- ✓ Adjustable Battery Numbers
- ✓ Low THDi to reduce power system pollution
- ✓ Adjustable charging current

STANDARDS COMPLIANCE

- Safety - UL1778, CSA C22.2 No. 107.3-05
- EMC - FCC Part 15, Subpart B Class A

ADDITIONAL FEATURES

- Modular Design with N+X redundancy and online hot swap expansion
- Low input Harmonic, Whole efficiency >95%, Input Power Factor >99%
- Easy Maintenance - Front Access wiring
- DC Cold Start Function
- Rs232 communication interface for intelligent local and remote monitoring - compatible with SNMP
- Fast Heat Dissipation

OPTIONAL

- SNMP Network Communication Card
- Lightning Protection
- Battery Temperature
- Mobile SMS Alarm Function
- Optional 10 inch True Color LCD Touch Screen

NOVA MODULAR 60 TO 140KVA, ONLINE MODULAR UPS

Power Backup Solutions • High Performance • Touch LCD Display • Unity Power Factor • Pure Sinewave • Programmable Outlets

TECHNICAL SPECIFICATIONS

Model	E060NIT33-30U	E080NIT33-42U	E080NET33-42U	E120NET33-42U	E140NET33-42U
Phase	3-Phase In / 3-Phase Out				
Cabinet Capacity*	60 KW	80 KW	80 KW	120 KW	140 KW
Battery Type	Built-in Battery		External Battery		
One Power Module Capacity	20KVA/20KW				
Max. Power Module No.	3	4	4	6	7+1
Max. Battery Set No.	3	4	-	-	-
INPUT					
Nominal Voltage	3 x 208 VAC (3Ph+N)				
Voltage Range	182 ~ 253 VAC at 100% load; 121 ~ 153VAC at <63% load				
Nominal Frequency	50/60Hz (Auto sensing)				
Frequency Range	40Hz ~70Hz				
Power Factor	> 0.99 at 100% load, > 0.98 at 50% load				
Harmonic Distortion (THDi)	< 3% @ 100% load				
OUTPUT					
Nominal Voltage	3 x 208V/220VAC (3Ph+N)				
Voltage Regulation (Steady state)	≤ ± 1% Typical (balanced load) ; ≤ ± 2% Typical (imbalanced load)				
Voltage Regulation (Transient)	≤ ± 5% Typical				
Nominal Frequency	50/60Hz				
Frequency Range (Synchronized)	46Hz ~ 54Hz or 56Hz ~ 64Hz				
Overload Capability	1 hour for 110%, 10 mins for 125%,; 1 min for 150%, 200ms for >150%				
Harmonic Distortion	≤ 2% THD (Linear Load) ; ≤ 4% THD (Non-linear Load)				
Efficiency	Up to 92.5% at over 50% load				
BATTERY / CHARGER					
Nominal Voltage	120V (12V x 20 pcs)				
Float Charging Voltage	2.3V / Cell				
Boost Charging Voltage	2.35V / Cell				
Temperature Compensation	Yes				
Maximum Charging Current	8A for each power module (User-adjustable)				
PHYSICAL					
Cabinet Dimension (D x W x H) mm	1100 x 600 x 1475	1100 x 600 x 2010	1100 x 600 x 1475	1100 x 600 x 1475	1100 x 600 x 2010
Net Weight (kg)	670.5	926	329	428.5	7 Power Modules: 504 8 Power Modules: 537
ENVIRONMENT					
Operating Temperature	0 ~ 40°C				
Relative Humidity	0 ~ 95% non-condensing				
Altitude	<1000m for Nominal power				
IP Protection	IP 20				
MANAGEMENT					
Smart RS-232 / USB	Supports Windows2 2000/2003/XP/Vista/2008, Windows2 7/8/10, Linux and MAC				
Optional SNMP	Power management from SNMP manager and web browser				

MODULAR UPS

NOVA PRO MODULAR 120 TO 300KVA, ONLINE UPS

Power Backup Solutions • High Performance • Touch LCD Display • Unity Power Factor • Pure Sinewave

Product ID
EXXXNET33-XXU



ExTell Nova Pro is a Premium Modular UPS with advanced features. Ideally suited for a Data Center and other higher load applications, Nova Pro is available both in a 30U and 42U Chassis with built in connections for the Power Modules. Each Power Module of the Nova Pro UPS is a 60kVA unit and can scale up to a maximum of 300kVA in a single 42U Chassis. With a possible Parallel Operation in a 1+1 configuration, Nova Pro can support from 60kVA to 300kVA in a Vertical Scale up Model and to a maximum of 600kW load for a Horizontal Scale Up Model. Also has attractive LCD Display and easy to use functions like Hot Swapping Features.

Features

- ✓ 10" Touch LCD Screen
- ✓ 1+1 Cabinet Parallel Operation
- ✓ Security Lock
- ✓ Expandable Power Module
- ✓ Multiple Communication
- ✓ Extra Communication Slot

STANDARDS COMPLIANCE

- Safety - IEC/EN 62040-1
- EMC - IEC/EN 62040-2 Category C3

ADDITIONAL FEATURES

- 60KW Single Power Module in 3U
- Supports Horizontal Expansion by 1+1 Cabinet Parallel Operation
- High Scalability
- High Efficiency double conversion Online UPS
- High Overload Capability
- N+1 or N+X Parallel Redundancy for Power Guarantee
- Hot-swappable Modular Design decreases MTTR
- Built-in Maintenance bypass switch for Easy Maintenance without interruptible
- Flexible Battery configuration and adjustable Charging Current
- Power Walk-in Function

NOVA PRO MODULAR 120 TO 300KVA, ONLINE UPS

Power Backup Solutions • High Performance • Touch LCD Display • Unity Power Factor • Pure Sinewave • Programmable Outlets

TECHNICAL SPECIFICATIONS

Model	E120NET33-30U	E180NET33-30U	E240NET33 - 42U	E300NET33 - 42U
Phase	3 Phase in / 3 Phase out			
Cabinet Capacity *	120 KW	180 KW	240 KW	300 KW
Battery Type	External Battery			
One Power Module Capacity	60KVA / 60KW			
Max. Power Module No.	2	3	4	5
INPUT				
Nominal Voltage	3 x 380/400/415 VAC (3Ph+N)			
Voltage Range	-30% ~ +20%			
Nominal Frequency	50/60Hz (Auto Sensing)			
Frequency Range	40Hz ~70Hz			
Power Factor	> 0.99 @ 100% Load , > 0.98 @ 50% Load			
Harmonic Distortion(THDi)	< 3% @ 100% load			
OUTPUT				
Nominal Voltage	3 x 380/400/415 VAC (3Ph+N)			
Voltage Regulation (Steady state)	≤ ± 1% Typical (balanced load) ; ≤ ± 2% Typical (unbalanced load)			
Nominal Frequency	50 / 60Hz			
Frequency Range (Synchronized)	46Hz ~ 54Hz or 56Hz ~ 64Hz			
Overload Capability	1 hour for ≤ 110%, 10 mins for 111% ~ 125%, 1 min for 126%~150% and 200ms for >150%			
Harmonic Distortion	≤2% THD (Linear Load) ; ≤4% THD (Non-linear Load)			
Efficiency	96%			
BATTERY / CHARGER				
Nominal Voltage	+/- 192V ~ +/- 240V (Selectable)			
Maximum Voltage	+/- 240V (12V x 40 Pcs)			
Minimum Voltage	+/- 192V (12V x 32 Pcs)			
Floating Charge Voltage	2.28V / Cell (2.25 ~2.33 Selectable)			
Boost Charging Voltage	2.35V/Cell			
Temperature Compensation	Yes			
Maximum Charging Current (Per Power Module)	18A (Adjustable)			
PHYSICAL				
Cabinet Dimension (D x W x H) mm	1100 x 600 x 1475	1100 x 600 x 1475	1100 x 600 x 2010	1100 x 600 x 2010
Net Weight (Kg)	308	352	472	516
ENVIRONMENT				
Operating Temperature	0 ~ 40°C			
Relative Humidity	0 ~ 95% non-condensing			
Altitude *	< 1000m for Nominal Power			
IP Protection	IP 20			
MANAGEMENT				
Smart RS-232 / USB	Supports Windows family, Linux and MAC			
Optional SNMP	Power management from SNMP manager and web browser			

*** If the UPS is installed or used in a place where the altitude is above than 1000m, the output power must be derated one percent per 100m. Product specifications are subject to change without further notice.

ASTRA LITE MODULAR 60KVA, ONLINE MODULAR UPS

Power Backup Solutions • High Performance • Touch LCD Display • Unity Power Factor • Pure Sinewave • Scalable Online UPS

Product ID
E010APMXXX



ExTell Astra Lite Modular Online UPS is the ideal protection and power backup device for your sensitive and critical loads in a Data Center Environment for smaller capacity requirements. Astra has a compact design and can be installed with Servers in the same cabinet. Multiple Astra UPS units can form a parallel power backup system by sharing common battery packs which leads to reduction in the expenditure. With a true Double-Conversion online design, Astra gives you a pure sinewave output with a Unity Power Factor Load Carrying capacity.

It has a rich LCD Display that provides you all the vital information and has configurable Voltage and Charging current adjustment capability. Astra is a SMART UPS that is Network Manageable by the addition of an external SNMP Card.

Astra can be easily upgraded by adding plug and play 10kVA Modules to increase the capacity as per requirement. With a modular design to enhance flexibility, Astra power module can be easily removed for any maintenance work without disconnecting any wires.

Features

- ✓ Rich LCD Display
- ✓ Adjustable Battery Numbers
- ✓ Low THDi to reduce power system pollution
- ✓ Rack Independent
- ✓ Network Manageable
- ✓ Parallel operation with common battery
- ✓ Unity Power Factor
- ✓ Generator Compatible
- ✓ Modular Connector Box with hot-swappable design for ease of power expansion, installation and maintenance
- ✓ True Double Conversion
- ✓ Adjustable charging current

STANDARDS COMPLIANCE

- Safety - UL1778, CSA C22.2 No. 107.3-05
- EMC - FCC Part 15, Subpart B Class A

ASTRA LITE MODULAR 60KVA, ONLINE MODULAR UPS

Power Backup Solutions • High Performance • Touch LCD Display • Unity Power Factor • Pure Sinewave • Scalable Online UPS

Model	ASTRA 3/3-10K	ASTRA 3/1-10K	ASTRA 1/1-10K
Part Number	E010APM233	E010APM231	E010APM211
Phase	3 Phase in / 3 Phase out	3 Phase in / 1 Phase out	1 Phase in / 1 Phase out
Capacity	10000 VA / 10000 W	10000 VA / 10000 W	10000 VA / 10000 W
Parallel Capability	10	10	10
INPUT			
Nominal Voltage	3 x 360VAC/380VAC/400VAC/415VAC (3Ph+N+PE)		208VAC/220VAC/230VAC/240VAC (1Ph+N+PE)
Voltage Range	190-520 VAC (3-phase) @ 50% load 305-478 VAC (3-phase) @ 100% load		110-300 VAC @ 50% load 176-276 VAC @ 100% load
Frequency Range	40Hz ~70Hz		
Power Factor	≥ 0.99 @ 100% Load		
Harmonic Distortion (THDi)	< 4% @ full linear load		
OUTPUT			
Output Voltage	360VAC/380VAC/400VAC/415VAC (3Ph+N)	208*/220/230/240VAC(L+N)	208*/220/230/240VAC(L+N)
AC Voltage Regulation (Batt. Mode)	± 1%		
Frequency Range (Synchronized Range)	46~54Hz or 56~64Hz		
Frequency Range (Batt. Mode)	50 Hz ± 0.1 Hz or 60 Hz ± 0.1 Hz		
Current Crest Ratio	3:1 (max.)		
Harmonic Distortion	≤ 2 % THD (Linear Load) ; ≤ 3 % THD (Non-linear Load)		
Transfer Time	AC Mode to Batt. Mode	Zero	
	Inverter to Bypass	Zero	
Waveform (Batt. Mode)	Pure Sinewave		
EFFICIENCY			
AC Mode	94%	94%	93.5%
ECO Mode	97%	97%	97%
Battery Mode	At Full Load	93%	92%
	Peak	93.5%	92.5%
BATTERY/CHARGER			
Battery Voltage	± 12V / 9 Ah		
Battery Numbers	16 ~ 20 pcs (adjustable) x 2	16 ~ 20 pcs (adjustable) x 2	16 ~ 20 pcs (adjustable) x 2
Nominal Voltage	+/-192V (12V x 32 pcs)	+/-192V (12V x 32 pcs)	+/-192V (12V x 32 pcs)
Maximum Voltage	+/- 240V (12V x 40 pcs)	+/- 240V (12V x 40 pcs)	+/- 240V (12V x 40 pcs)
Minimum Voltage	+/-192V (12V x 32 pcs)	+/-192V (12V x 32 pcs)	+/-192V (12V x 32 pcs)
Charging Voltage	± 218V	± 218V	± 218V
Typical Recharging Time	9 hours recover to 90% capacity		
Charging Current	+/- 4A		
INDICATORS			
LCD/LED Display	UPS status, Load level, Battery level, Input/Output voltage, Discharge timer, and Fault conditions		
PHYSICAL			
Dimension, D X W X H (mm)	678 X 418 X 129 [3U]		
Net Weight (kgs)	20.5	20.5	20.5
ENVIRONMENT			
Operation Humidity	0-95 % RH @ 0- 40°C (non-condensing)		
Noise Level	Less than 55dB @ 1 Meter	Less than 55dB @ 1 Meter	Less than 55dB @ 1 Meter
MANAGEMENT			
Smart USB	Supports Windows® 2000/2003/XP/Vista/2008, Windows® 7/8, Linux and MAC		
Optional SNMP	Power management from SNMP manager and web browser		

GEL BATTERY 12V 9AH

Power Backup Solutions • Gel Electrolyte • Leak Resistant

Product ID
E120092G



ExTell Gel Batteries are reliable, maintenance free batteries with a Silica Gel Electrolyte. Capable of absorbing shocks, Gel batteries are leak proof and deep cycle batteries that can be discharged completely and recharged to work like new.

Features

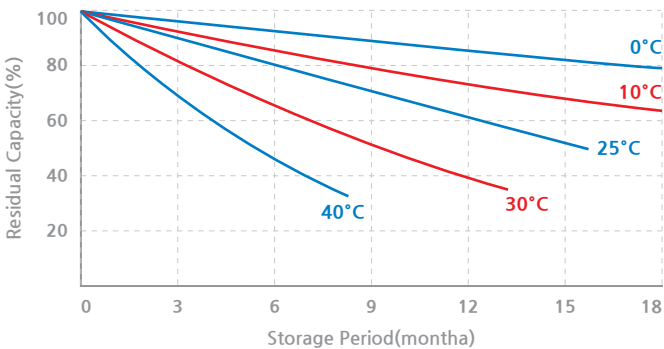
- ✓ **Maintenance Free**
- ✓ **Leak Resistant**
- ✓ **Resistant to Vibration**
- ✓ **Deep Cycle discharge and recharge**

PARAMETER CHART

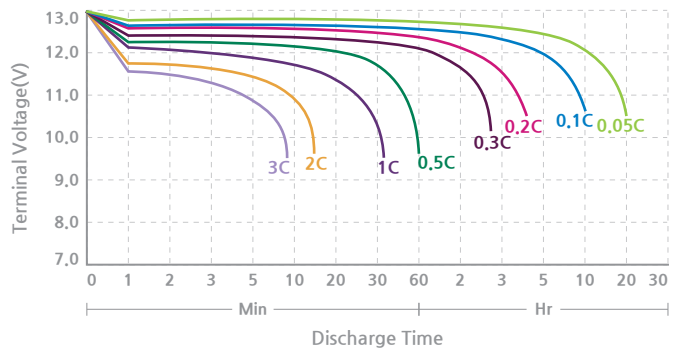
Volts	12V	
Capacity (25°C)	20 Hours Rate (0.45A)	9Ah
Discharge Current Testing (25°C)	1 Hours Rate (5A)	5.1Ah
	3 Hours Rate (2.2A)	6.9Ah
Internal Resistance	Full Charged Battery 25°C	12.5mohm
Capacity Affected by Temperature	40°C	104%
	25°C	100%
	0°C	83%
	- 15°C	65%
Residual Capacity (25°C)	Capacity after 3 Month Storage	91%
	Capacity after 6 Month Storage	82%
	Capacity after 12 Month Storage	65%
Change (Constant Voltage)	Cycle (25°C)	Initial Charging Current less than 2.7A Voltage 14.5 ~ 14.9A
	Float (25°C)	Charge Voltage 13.6 ~ 13.8A
Weight (Approx.)	2.4Kg	

* The above are average and data obtained from the first 3 charge / discharge cycles. These are not minimum values.

RESIDUAL CAPACITY



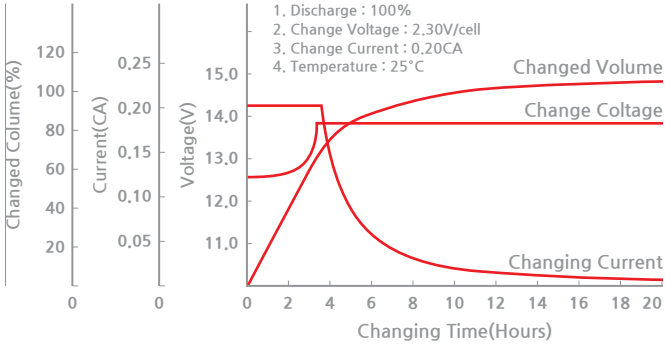
DISCHARGE CURRENT 25°C



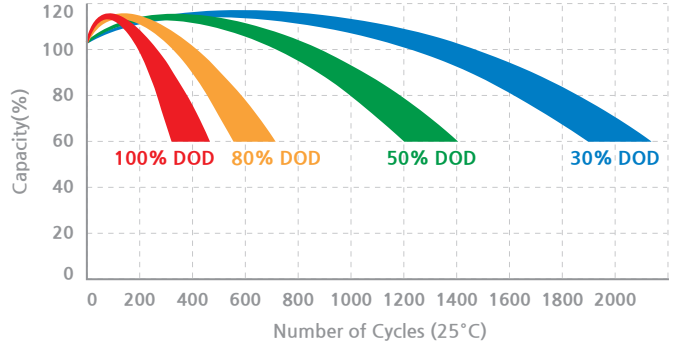
GEL BATTERY 12V 9AH

Power Backup Solutions • Gel Electrolyte • Leak Resistant

CONSTANT VOLTAGE CHARGING CHARACTERISTICS



CYCLE SERVICE LIFE IN RELATION TO THE DEPTH OF DISCHARGE



CONSTANT CURRENT DISCHARGE (A, 25°C) CHARACTERISTICS

FV/ Time	5 Min	10 Min	15 Min	30 Min	60 Min	2 Hr	3 Hr	5 Hr	8 Hr	10 Hr	20 Hr
9.60V	39.08	25.75	19.04	10.62	5.81	3.21	2.18	1.51	1.00	0.81	0.45
10.2V	37.17	24.25	18.14	10.22	5.58	3.16	2.15	1.49	0.99	0.81	0.44
10.5V	36.17	23.85	17.84	9.92	5.47	3.13	2.13	1.48	0.98	0.80	0.43
10.8V	34.84	23.05	17.33	9.72	5.30	3.10	2.11	1.46	0.98	0.80	0.43

CONSTANT CURRENT DISCHARGE (W, 25°C) CHARACTERISTICS

FV/ Time	5 Min	10 Min	15 Min	30 Min	60 Min	2 Hr	3 Hr	5 Hr	8 Hr	10 Hr	20 Hr
9.60V	435.87	290.58	217.43	121.24	67.33	37.47	25.95	18.04	12.12	9.77	5.45
10.2V	414.83	273.55	206.41	117.32	64.63	36.97	25.55	17.84	11.92	9.74	5.43
10.5V	402.8	268.54	203.41	113.23	63.33	36.57	25.35	17.64	11.72	9.67	5.41
10.8V	388.78	259.52	197.39	111.22	61.42	36.17	25.15	17.43	11.62	9.62	5.39

CONSTANT CURRENT DISCHARGE (W, 25°C) CHARACTERISTICS

Battery Type		-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	45°C
Gel Battery	12V	50%	70%	83%	87%	90%	98%	100%	102%	104%	105%

* The above are average and data obtained from the first 3 charge / discharge cycles. These are not minimum values.

ORDERING INFORMATION

E120092G	ExTell Gel Battery 12V 9Ah, Gray
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GEL BATTERY 12V 17AH

Power Backup Solutions • Gel Electrolyte • Leak Resistant

Product ID
E120172G



ExTell Gel Batteries are reliable, maintenance free batteries with a Silica Gel Electrolyte. Capable of absorbing shocks, Gel batteries are leak proof and deep cycle batteries that can be discharged completely and recharged to work like new.

Features

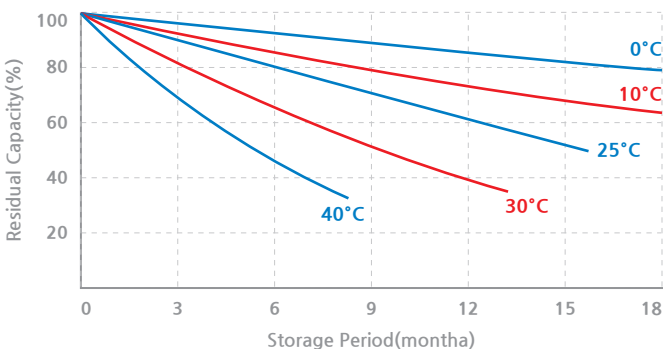
- ✓ Maintenance Free
- ✓ Leak Resistant
- ✓ Resistant to Vibration
- ✓ Deep Cycle discharge and recharge

PARAMETER CHART

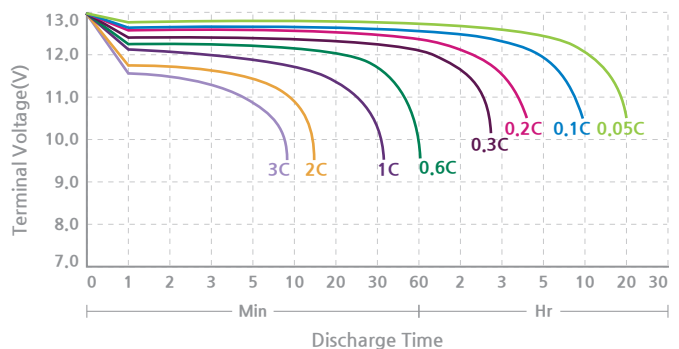
Volts	12V	
Capacity (25°C)	20 Hours Rate (0.85A)	17Ah
Discharge Current Testing (25°C)	1 Hours Rate (9.3A)	10.5Ah
	3 Hours Rate (4.2A)	14Ah
Internal Resistance	Full Charged Battery 25°C	12.5mohm
Capacity Affected by Temperature	40°C	104%
	25°C	100%
	0°C	83%
	- 15°C	65%
	Capacity after 3 Month Storage	91%
Residual Capacity (25°C)	Capacity after 6 Month Storage	82%
	Capacity after 12 Month Storage	65%
	Change (Constant Voltage)	Cycle (25°C)
	Float (25°C)	Charge Voltage 13.6 ~ 13.8A
Weight (Approx.)	5.18Kg	

* The above are average and data obtained from the first 3 charge / discharge cycles. These are not minimum values.

RESIDUAL CAPACITY



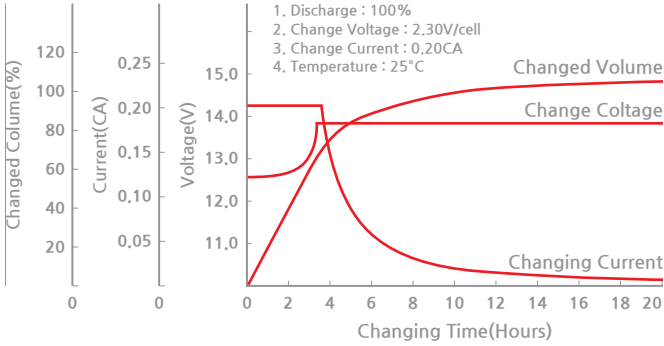
DISCHARGE CURRENT 25°C



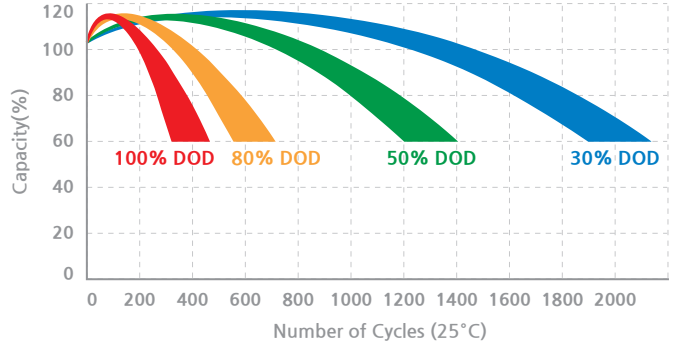
GEL BATTERY 12V 17AH

Power Backup Solutions • Gel Electrolyte • Leak Resistant

CONSTANT VOLTAGE CHARGING CHARACTERISTICS



CYCLE SERVICE LIFE IN RELATION TO THE DEPTH OF DISCHARGE



CONSTANT CURRENT DISCHARGE (A, 25°C) CHARACTERISTICS

FV/ Time	5 Min	10 Min	15 Min	30 Min	60 Min	2 Hr	3 Hr	5 Hr	8 Hr	10 Hr	20 Hr
9.60V	66.15	41.58	33.08	19.85	11.34	6.71	4.60	3.07	2.11	1.72	0.89
10.2V	62.90	39.48	31.71	19.01	10.92	6.62	4.54	3.02	2.09	1.71	0.89
10.5V	61.32	38.54	31.08	18.69	10.61	6.56	4.49	3.00	2.08	1.71	0.88
10.8V	59.12	37.17	30.14	18.06	10.34	6.48	4.44	2.96	2.08	1.70	0.88

CONSTANT CURRENT DISCHARGE (W, 25°C) CHARACTERISTICS

FV/ Time	5 Min	10 Min	15 Min	30 Min	60 Min	2 Hr	3 Hr	5 Hr	8 Hr	10 Hr	20 Hr
9.60V	738.15	469.35	376.95	227.85	131.25	78.44	54.71	36.65	25.31	20.69	10.78
10.2V	701.40	445.20	362.25	218.40	126.00	77.39	53.87	36.12	25.10	20.58	10.68
10.5V	683.55	433.65	353.85	213.15	122.85	76.76	53.34	35.81	24.89	20.58	10.58
10.8V	659.40	418.95	197.39	207.90	119.70	75.71	52.82	35.39	24.89	20.58	10.58

CONSTANT CURRENT DISCHARGE (W, 25°C) CHARACTERISTICS

Battery Type		-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	45°C
Gel Battery	12V	50%	70%	83%	85%	90%	98%	100%	102%	104%	105%

* The above are average and data obtained from the first 3 charge / discharge cycles. These are not minimum values.

ORDERING INFORMATION

E120172G	ExTell Gel Battery 12V 17Ah, Gray
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GEL BATTERY 12V 20AH

Power Backup Solutions • Gel Electrolyte • Leak Resistant

Product ID
E120202G



ExTell Gel Batteries are reliable, maintenance free batteries with a Silica Gel Electrolyte. Capable of absorbing shocks, Gel batteries are leak proof and deep cycle batteries that can be discharged completely and recharged to work like new.

Features

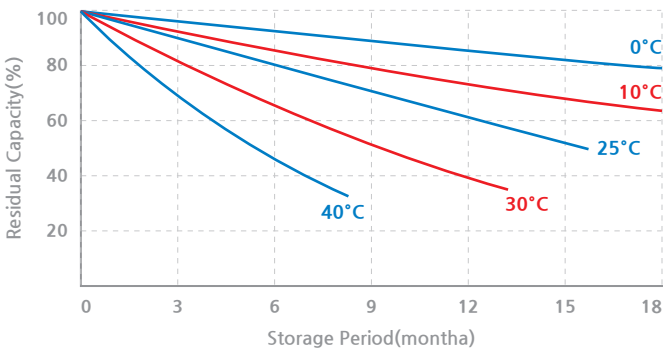
- ✓ Maintenance Free
- ✓ Leak Resistant
- ✓ Resistant to Vibration
- ✓ Deep Cycle discharge and recharge

PARAMETER CHART

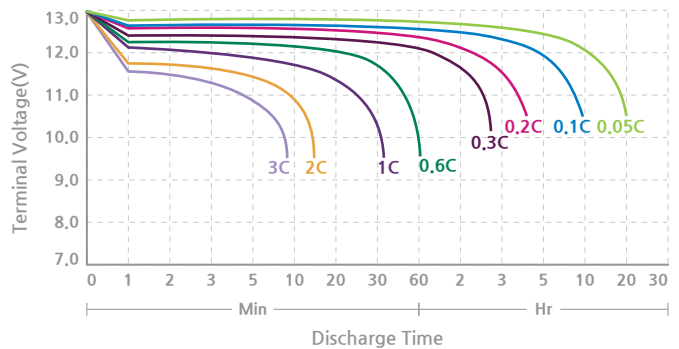
Volts	12V	
Capacity (25°C)	20 Hours Rate (1A)	20Ah
Discharge Current Testing (25°C)	1 Hours Rate (11A)	12Ah
	3 Hours Rate (5A)	16.5Ah
	Internal Resistance	Full Charged Battery 25°C
Capacity Affected by Temperature	40°C	104%
	25°C	100%
	0°C	83%
	- 15°C	65%
	Residual Capacity (25°C)	Capacity after 3 Month Storage
	Capacity after 6 Month Storage	82%
	Capacity after 12 Month Storage	65%
Change (Constant Voltage)	Cycle (25°C)	Initial Charging Current less than 5.1A Voltage 14.5 ~ 14.9A
	Float (25°C)	Charge Voltage 13.6 ~ 13.8A
Weight (Approx.)	6.08Kg	

* The above are average and data obtained from the first 3 charge / discharge cycles. These are not minimum values.

RESIDUAL CAPACITY



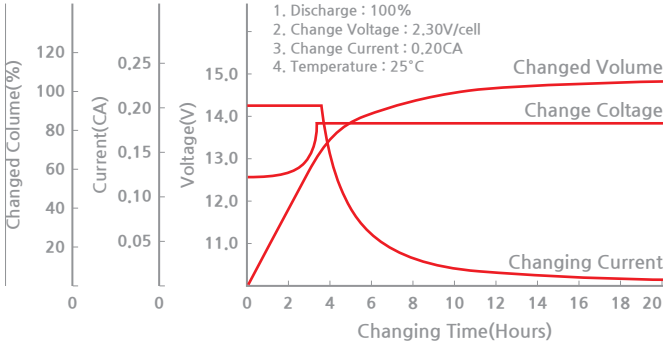
DISCHARGE CURRENT 25°C



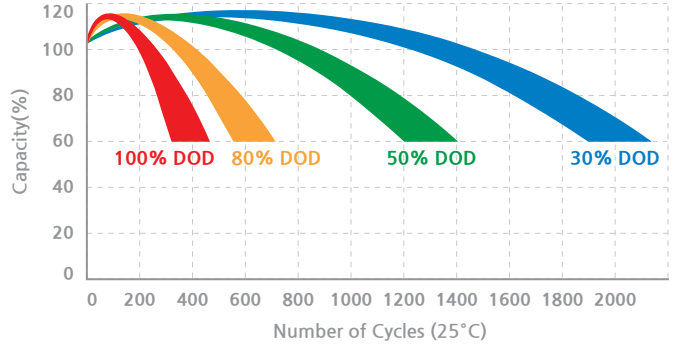
GEL BATTERY 12V 20AH

Power Backup Solutions • Gel Electrolyte • Leak Resistant

CONSTANT VOLTAGE CHARGING CHARACTERISTICS



CYCLE SERVICE LIFE IN RELATION TO THE DEPTH OF DISCHARGE



CONSTANT CURRENT DISCHARGE (A, 25°C) CHARACTERISTICS

FV/ Time	5 Min	10 Min	15 Min	30 Min	60 Min	2 Hr	3 Hr	5 Hr	8 Hr	10 Hr	20 Hr
9.60V	72.70	45.74	36.38	21.83	12.47	7.38	5.06	3.37	2.32	1.89	1.05
10.2V	69.18	43.43	34.88	20.91	12.01	7.28	4.99	3.33	2.30	1.88	1.04
10.5V	67.45	42.39	34.19	20.56	11.67	7.22	4.94	3.30	2.29	1.87	1.03
10.8V	65.03	40.89	34.15	19.87	11.38	7.13	4.89	3.26	2.27	1.86	1.02

CONSTANT CURRENT DISCHARGE (W, 25°C) CHARACTERISTICS

FV/ Time	5 Min	10 Min	15 Min	30 Min	60 Min	2 Hr	3 Hr	5 Hr	8 Hr	10 Hr	20 Hr
9.60V	811.97	516.29	414.65	250.64	144.38	86.28	60.18	40.31	27.84	22.83	12.71
10.2V	771.54	489.72	398.48	240.24	138.60	85.12	59.25	39.73	27.60	22.71	12.59
10.5V	751.91	477.02	389.24	234.47	135.14	84.43	58.67	39.39	27.37	22.64	12.47
10.8V	725.34	460.85	377.69	228.69	131.67	83.28	58.10	38.92	27.21	22.53	12.33

CONSTANT CURRENT DISCHARGE (W, 25°C) CHARACTERISTICS

Battery Type		-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	45°C
Gel Battery	12V	50%	70%	83%	85%	90%	98%	100%	102%	104%	105%

* The above are average and data obtained from the first 3 charge / discharge cycles. These are not minimum values.

ORDERING INFORMATION

E120202G	ExTell Gel Battery 12V 20Ah, Gray
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GEL BATTERY 12V 26AH

Power Backup Solutions • Gel Electrolyte • Leak Resistant

Product ID
E120262G



ExTell Gel Batteries are reliable, maintenance free batteries with a Silica Gel Electrolyte. Capable of absorbing shocks, Gel batteries are leak proof and deep cycle batteries that can be discharged completely and recharged to work like new.

Features

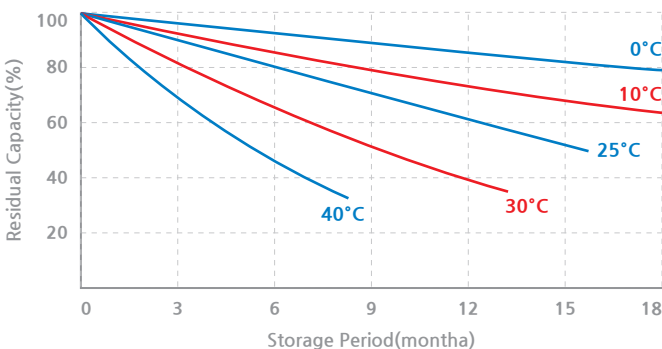
- ✓ Maintenance Free
- ✓ Leak Resistant
- ✓ Resistant to Vibration
- ✓ Deep Cycle discharge and recharge

PARAMETER CHART

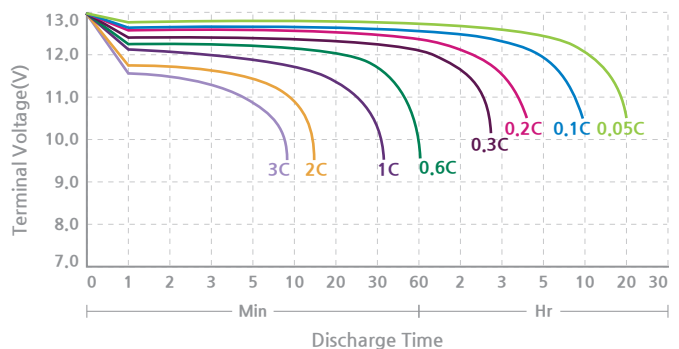
Volts	12V	
Capacity (25°C)	20 Hours Rate (1.3A)	26Ah
Discharge Current Testing (25°C)	1 Hours Rate (14.2A)	15Ah
	3 Hours Rate (6.5A)	19.5Ah
	Internal Resistance	Full Charged Battery 25°C
Capacity Affected by Temperature	40°C	104%
	25°C	100%
	0°C	83%
	- 15°C	65%
	Residual Capacity (25°C)	Capacity after 3 Month Storage
Capacity after 6 Month Storage		82%
Capacity after 12 Month Storage		65%
Change (Constant Voltage)	Cycle (25°C)	Initial Charging Current less than 5.1A Voltage 14.5 ~ 14.9A
	Float (25°C)	Charge Voltage 13.6 ~ 13.8A
Weight (Approx.)	8.05Kg	

* The above are average and data obtained from the first 3 charge / discharge cycles. These are not minimum values.

RESIDUAL CAPACITY



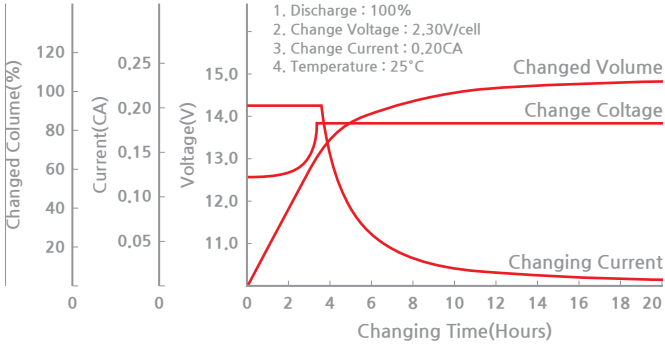
DISCHARGE CURRENT 25°C



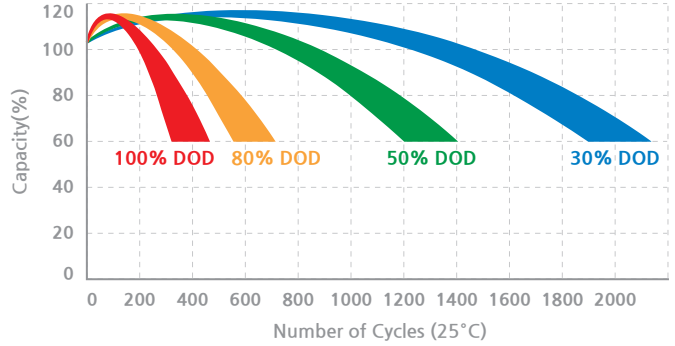
GEL BATTERY 12V 26AH

Power Backup Solutions • Gel Electrolyte • Leak Resistant

CONSTANT VOLTAGE CHARGING CHARACTERISTICS



CYCLE SERVICE LIFE IN RELATION TO THE DEPTH OF DISCHARGE



CONSTANT CURRENT DISCHARGE (A, 25°C) CHARACTERISTICS

FV/ Time	5 Min	10 Min	15 Min	30 Min	60 Min	2 Hr	3 Hr	5 Hr	8 Hr	10 Hr	20 Hr
9.60V	81.4	59.2	45.8	27.3	16.4	9.6	6.6	4.6	3.2	2.6	1.4
10.2V	76.1	56.8	43.7	26.5	16.0	9.4	6.5	4.5	3.1	2.5	1.4
10.5V	71.4	54.5	42.1	25.7	15.6	9.2	6.4	4.4	3.1	2.5	1.3
10.8V	64.2	49.8	40.0	24.5	14.8	9.0	6.2	4.2	3.0	2.4	1.3

CONSTANT CURRENT DISCHARGE (W, 25°C) CHARACTERISTICS

FV/ Time	5 Min	10 Min	15 Min	30 Min	60 Min	2 Hr	3 Hr	5 Hr	8 Hr	10 Hr	20 Hr
9.60V	895.9	650.8	503.4	300.3	180.2	105.8	72.5	50.3	34.7	28.3	15.0
10.2V	837.3	625.1	480.5	291.7	175.9	103.7	71.5	49.2	34.3	27.5	15.0
10.5V	785.6	599.4	463.3	283.1	171.6	101.5	70.1	48.0	34.0	27.2	14.3
10.8V	706.4	548.0	440.4	270.0	163.0	98.7	67.7	46.3	33.2	26.9	14.3

CONSTANT CURRENT DISCHARGE (W, 25°C) CHARACTERISTICS

Battery Type		-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	45°C
Gel Battery	12V	50%	70%	83%	85%	90%	98%	100%	102%	104%	105%

* The above are average and data obtained from the first 3 charge / discharge cycles. These are not minimum values.

ORDERING INFORMATION

E120262G	ExTell Gel Battery 12V 26Ah, Gray
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GEL BATTERY 12V 33AH

Power Backup Solutions • Gel Electrolyte • Leak Resistant

Product ID
E120332G



ExTell Gel Batteries are reliable, maintenance free batteries with a Silica Gel Electrolyte. Capable of absorbing shocks, Gel batteries are leak proof and deep cycle batteries that can be discharged completely and recharged to work like new.

Features

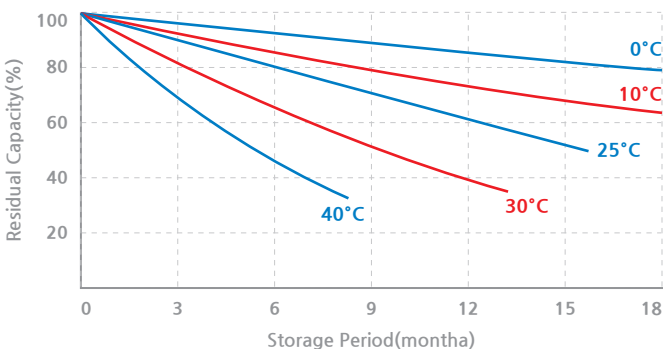
- ✓ Maintenance Free
- ✓ Leak Resistant
- ✓ Resistant to Vibration
- ✓ Deep Cycle discharge and recharge

PARAMETER CHART

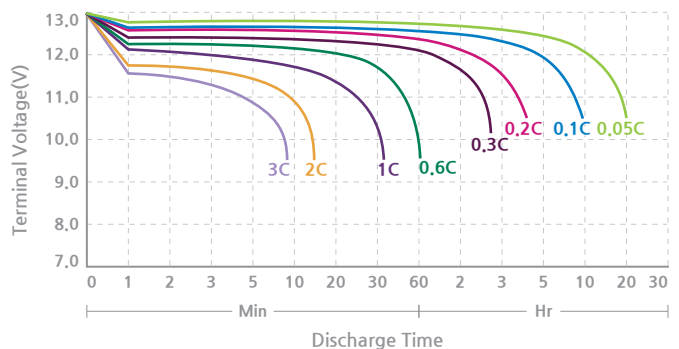
Volts	12V	
Capacity (25°C)	20 Hours Rate (1.65A)	33Ah
Discharge Current Testing (25°C)	1 Hours Rate (18.2A)	22Ah
	3 Hours Rate (8.3A)	27Ah
	Full Charged Battery 25°C	9mohm
Capacity Affected by Temperature	40°C	104%
	25°C	100%
	0°C	83%
	- 15°C	65%
	Capacity after 3 Month Storage	91%
Residual Capacity (25°C)	Capacity after 6 Month Storage	82%
	Capacity after 12 Month Storage	65%
	Cycle (25°C)	Initial Charging Current less than 5.1A Voltage 14.5 ~ 14.9A
Change (Constant Voltage)	Float (25°C)	Charge Voltage 13.6 ~ 13.8A
Weight (Approx.)	10.35Kg	

* The above are average and data obtained from the first 3 charge / discharge cycles. These are not minimum values.

RESIDUAL CAPACITY



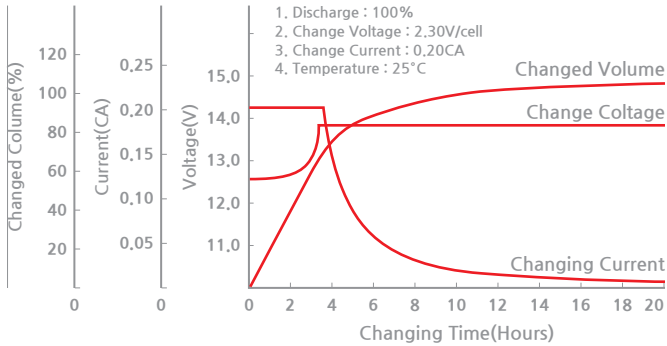
DISCHARGE CURRENT 25°C



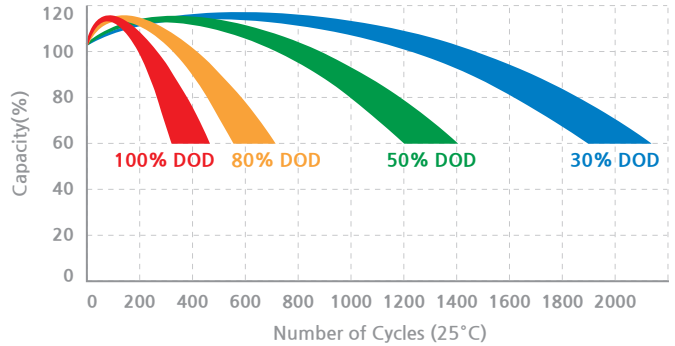
GEL BATTERY 12V 33AH

Power Backup Solutions • Gel Electrolyte • Leak Resistant

CONSTANT VOLTAGE CHARGING CHARACTERISTICS



CYCLE SERVICE LIFE IN RELATION TO THE DEPTH OF DISCHARGE



CONSTANT CURRENT DISCHARGE (A, 25°C) CHARACTERISTICS

FV/ Time	5 Min	10 Min	15 Min	30 Min	60 Min	2 Hr	3 Hr	5 Hr	8 Hr	10 Hr	20 Hr
9.60V	108.6	69.8	59.6	35.6	20.5	11.9	8.7	5.8	3.7	3.2	1.8
10.2V	103.7	66.2	57.2	34.2	19.8	11.7	8.5	5.7	3.6	3.1	1.7
10.5V	100.5	64.2	55.5	33.4	19.3	11.6	8.3	5.6	3.6	3.1	1.7
10.8V	97.4	62.2	53.6	32.6	18.8	11.5	8.1	5.5	3.5	3.0	1.6

CONSTANT CURRENT DISCHARGE (W, 25°C) CHARACTERISTICS

FV/ Time	5 Min	10 Min	15 Min	30 Min	60 Min	2 Hr	3 Hr	5 Hr	8 Hr	10 Hr	20 Hr
9.60V	1140.6	752.5	629.1	376.3	234.1	137.4	102.7	68.7	45.7	38.4	20.0
10.2V	1087.3	715.0	603.4	360.5	225.2	135.4	99.7	67.4	45.3	38.2	19.8
10.5V	1054.7	693.3	588.1	352.1	213.8	134.4	97.8	66.4	45.1	38.0	19.6
10.8V	1022.1	671.5	572.8	343.7	202.5	132.9	95.8	65.4	44.6	37.8	19.4

CONSTANT CURRENT DISCHARGE (W, 25°C) CHARACTERISTICS

Battery Type		-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	45°C
Gel Battery	12V	50%	70%	83%	85%	90%	98%	100%	102%	104%	105%

* The above are average and data obtained from the first 3 charge / discharge cycles. These are not minimum values.

ORDERING INFORMATION

E120332G	ExTell Gel Battery 12V 33Ah, Gray
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GEL BATTERY

GEL BATTERY 12V 55AH

Power Backup Solutions • Gel Electrolyte • Leak Resistant

Product ID
E120552G



ExTell Gel Batteries are reliable, maintenance free batteries with a Silica Gel Electrolyte. Capable of absorbing shocks, Gel batteries are leak proof and deep cycle batteries that can be discharged completely and recharged to work like new.

Features

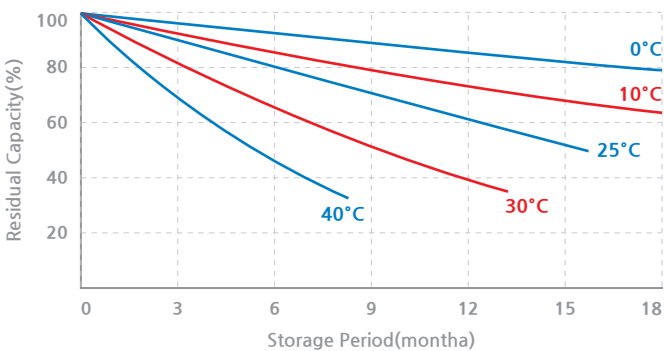
- ✓ Maintenance Free
- ✓ Leak Resistant
- ✓ Resistant to Vibration
- ✓ Deep Cycle discharge and recharge

PARAMETER CHART

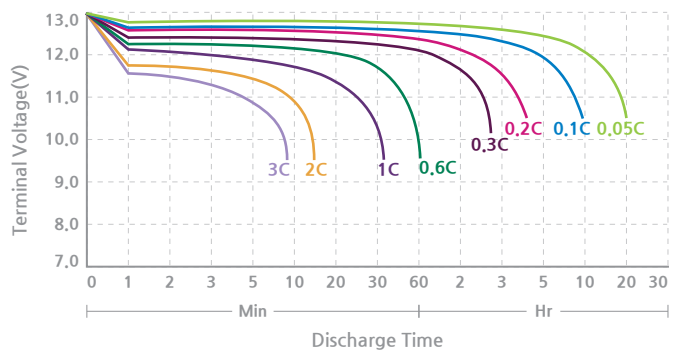
Volts	12V	
Capacity (25°C)	20 Hours Rate (5.5A)	55Ah
Discharge Current Testing (25°C)	1 Hours Rate (30.2A)	30.5Ah
	3 Hours Rate (13.7A)	41Ah
Internal Resistance	Full Charged Battery 25°C	8mohm
Capacity Affected by Temperature	40°C	104%
	25°C	100%
	0°C	83%
	- 15°C	65%
Residual Capacity (25°C)	Capacity after 3 Month Storage	91%
	Capacity after 6 Month Storage	82%
	Capacity after 12 Month Storage	65%
Change (Constant Voltage)	Cycle (25°C)	Initial Charging Current less than 5.1A Voltage 14.5 ~ 14.9A
	Float (25°C)	Charge Voltage 13.6 ~ 13.8A
Weight (Approx.)	16.8Kg	

* The above are average and data obtained from the first 3 charge / discharge cycles. These are not minimum values.

RESIDUAL CAPACITY



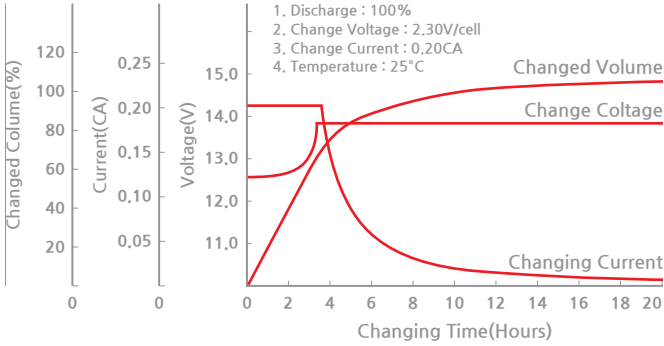
DISCHARGE CURRENT 25°C



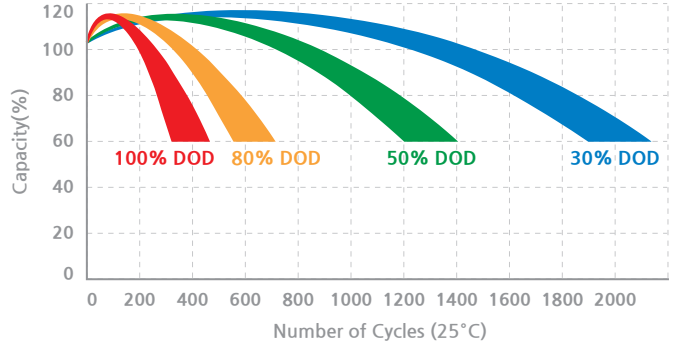
GEL BATTERY 12V 55AH

Power Backup Solutions • Gel Electrolyte • Leak Resistant

CONSTANT VOLTAGE CHARGING CHARACTERISTICS



CYCLE SERVICE LIFE IN RELATION TO THE DEPTH OF DISCHARGE



CONSTANT CURRENT DISCHARGE (A, 25°C) CHARACTERISTICS

FV/ Time	5 Min	10 Min	15 Min	30 Min	60 Min	2 Hr	3 Hr	5 Hr	8 Hr	10 Hr	20 Hr
9.60V	170.4	126.3	97.2	55.2	30.8	20.1	13.8	9.2	6.0	5.5	2.9
10.2V	161.3	120.2	93.2	53.8	29.7	19.8	13.7	9.1	5.9	5.4	2.9
10.5V	159.4	118.3	91.3	52.2	28.5	19.6	13.2	8.9	5.8	5.3	2.8
10.8V	151.6	122.4	88.4	50.2	27.6	19.4	12.6	8.7	5.6	5.3	2.8

CONSTANT CURRENT DISCHARGE (W, 25°C) CHARACTERISTICS

FV/ Time	5 Min	10 Min	15 Min	30 Min	60 Min	2 Hr	3 Hr	5 Hr	8 Hr	10 Hr	20 Hr
9.60V	1773.8	1366.8	1065.2	672.4	395.8	222.5	166.3	113.2	74.8	64.7	34.5
10.2V	1679.6	1296.7	1021.1	644.3	379.8	219.5	164.3	112.2	74.1	64.1	34.4
10.5V	1657.5	1279.6	1000.1	630.3	688.4	216.5	162.3	111.2	73.6	64.0	34.4
10.8V	1571.4	1216.5	968.0	610.3	359.7	214.4	160.3	110.2	72.7	63.8	34.3

CONSTANT CURRENT DISCHARGE (W, 25°C) CHARACTERISTICS

Battery Type		-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	45°C
Gel Battery	12V	50%	70%	83%	85%	90%	98%	100%	102%	104%	105%

* The above are average and data obtained from the first 3 charge / discharge cycles. These are not minimum values.

ORDERING INFORMATION

E120552G	ExTell Gel Battery 12V 55Ah, Gray
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GEL BATTERY 12V 65AH

Power Backup Solutions • Gel Electrolyte • Leak Resistant

Product ID
E120652G



ExTell Gel Batteries are reliable, maintenance free batteries with a Silica Gel Electrolyte. Capable of absorbing shocks, Gel batteries are leak proof and deep cycle batteries that can be discharged completely and recharged to work like new.

Features

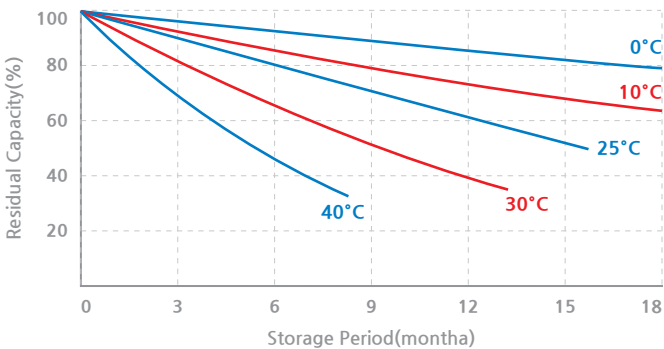
- ✓ Maintenance Free
- ✓ Leak Resistant
- ✓ Resistant to Vibration
- ✓ Deep Cycle discharge and recharge

PARAMETER CHART

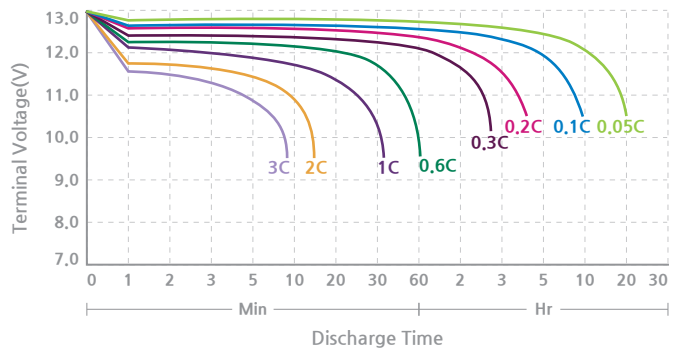
Volts	12V	
Capacity (25°C)	20 Hours Rate (6.5A)	65Ah
Discharge Current Testing (25°C)	1 Hours Rate (35.7A)	36Ah
	3 Hours Rate (16.2A)	49Ah
	Internal Resistance	Full Charged Battery 25°C
Capacity Affected by Temperature	40°C	104%
	25°C	100%
	0°C	83%
	- 15°C	65%
	Residual Capacity (25°C)	Capacity after 3 Month Storage
	Capacity after 6 Month Storage	82%
	Capacity after 12 Month Storage	65%
Change (Constant Voltage)	Cycle (25°C)	Initial Charging Current less than 5.1A Voltage 14.5 ~ 14.9A
	Float (25°C)	Charge Voltage 13.6 ~ 13.8A
Weight (Approx.)	20.6Kg	

* The above are average and data obtained from the first 3 charge / discharge cycles. These are not minimum values.

RESIDUAL CAPACITY



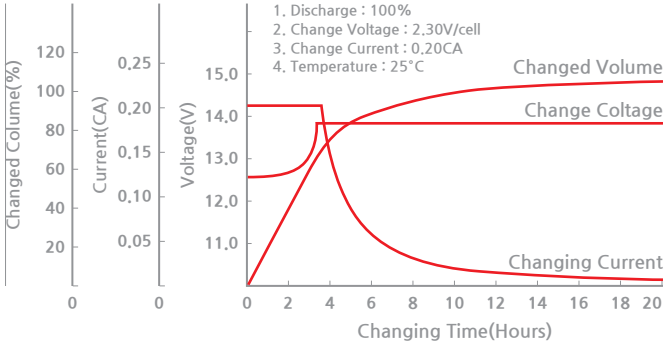
DISCHARGE CURRENT 25°C



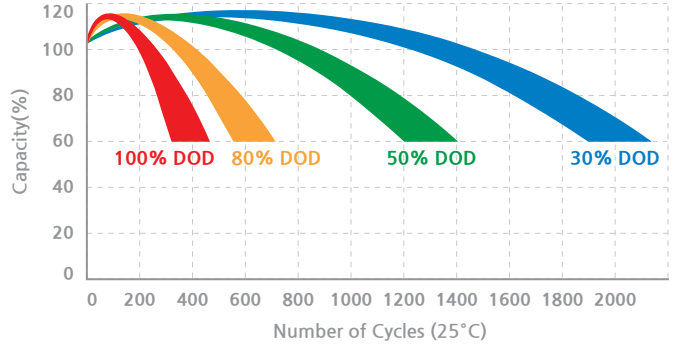
GEL BATTERY 12V 65AH

Power Backup Solutions • Gel Electrolyte • Leak Resistant

CONSTANT VOLTAGE CHARGING CHARACTERISTICS



CYCLE SERVICE LIFE IN RELATION TO THE DEPTH OF DISCHARGE



CONSTANT CURRENT DISCHARGE (A, 25°C) CHARACTERISTICS

FV/ Time	5 Min	10 Min	15 Min	30 Min	60 Min	2 Hr	3 Hr	5 Hr	8 Hr	10 Hr	20 Hr
9.60V	205.4	143.3	110.2	67.1	41.1	23.7	16.7	11.7	7.9	6.7	3.5
10.2V	195.4	136.3	106.2	64.4	39.5	23.4	16.5	11.5	7.9	6.6	3.5
10.5V	190.4	132.3	103.2	63.1	38.6	23.2	16.3	11.4	7.8	6.5	3.4
10.8V	183.4	128.3	100.2	61.2	37.5	22.9	16.2	11.3	7.7	6.5	3.4

CONSTANT CURRENT DISCHARGE (W, 25°C) CHARACTERISTICS

FV/ Time	5 Min	10 Min	15 Min	30 Min	60 Min	2 Hr	3 Hr	5 Hr	8 Hr	10 Hr	20 Hr
9.60V	2157.3	1547.1	1210.4	753.5	467.9	274.5	196.4	138.3	94.1	79.6	41.9
10.2V	2049.1	1469.9	1161.3	723.4	449.9	270.5	194.4	136.3	93.3	79.0	41.5
10.5V	1999.0	1427.9	1132.3	707.4	438.9	268.5	192.4	135.3	92.8	78.1	41.1
10.8V	1925.8	1381.8	1104.2	687.4	426.9	265.5	191.4	134.3	91.9	77.8	40.9

CONSTANT CURRENT DISCHARGE (W, 25°C) CHARACTERISTICS

Battery Type		-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	45°C
Gel Battery	12V	50%	70%	83%	85%	90%	98%	100%	102%	104%	105%

* The above are average and data obtained from the first 3 charge / discharge cycles. These are not minimum values.

ORDERING INFORMATION

E120652G	ExTell Gel Battery 12V 65Ah, Gray
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GEL BATTERY 12V 200AH

Power Backup Solutions • Gel Electrolyte • Leak Resistant

Product ID
E122002G



ExTell Gel Batteries are reliable, maintenance free batteries with a Silica Gel Electrolyte. Capable of absorbing shocks, Gel batteries are leak proof and deep cycle batteries that can be discharged completely and recharged to work like new.

Features

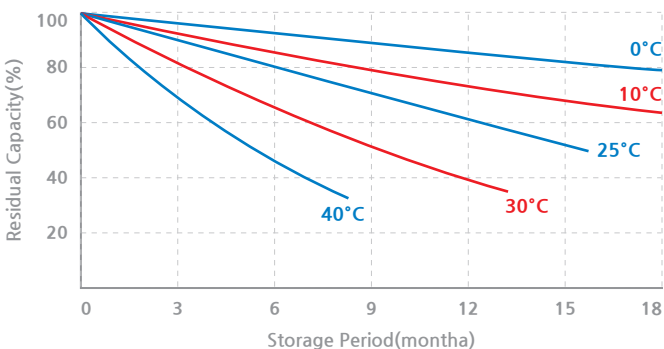
- ✓ Maintenance Free
- ✓ Leak Resistant
- ✓ Resistant to Vibration
- ✓ Deep Cycle discharge and recharge

PARAMETER CHART

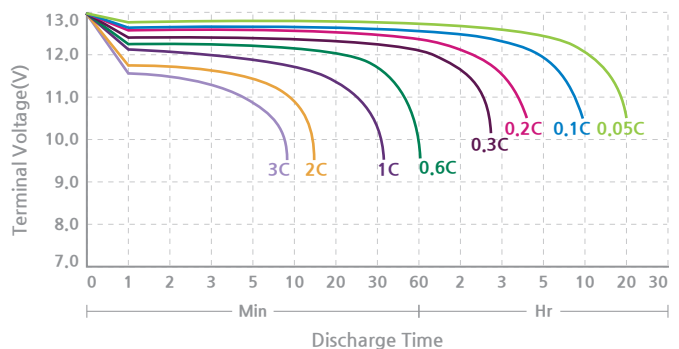
Volts	12V	
Capacity (25°C)	20 Hours Rate (20A)	200Ah
Discharge Current Testing (25°C)	1 Hours Rate (110A)	110Ah
	3 Hours Rate (50A)	150Ah
	Internal Resistance	Full Charged Battery 25°C
Capacity Affected by Temperature	40°C	104%
	25°C	100%
	0°C	83%
	- 15°C	65%
	Residual Capacity (25°C)	Capacity after 3 Month Storage
	Capacity after 6 Month Storage	82%
	Capacity after 12 Month Storage	65%
Change (Constant Voltage)	Cycle (25°C)	Initial Charging Current less than 5.1A Voltage 14.5 ~ 14.9A
	Float (25°C)	Charge Voltage 13.6 ~ 13.8A
Weight (Approx.)	60.2Kg	

* The above are average and data obtained from the first 3 charge / discharge cycles. These are not minimum values.

RESIDUAL CAPACITY



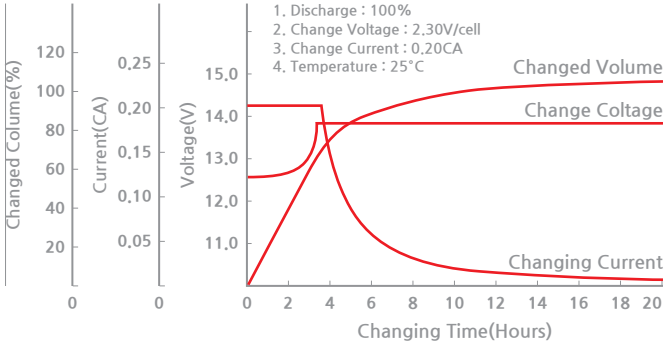
DISCHARGE CURRENT 25°C



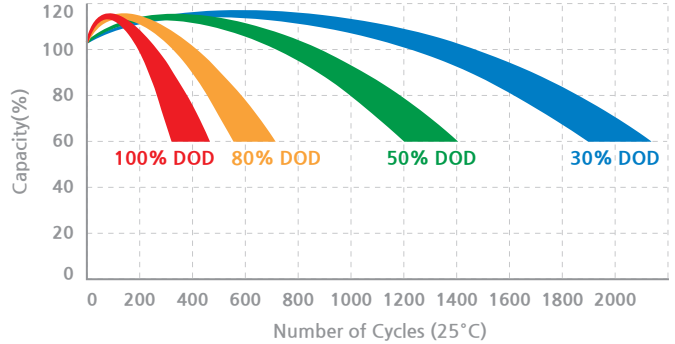
GEL BATTERY 12V 200AH

Power Backup Solutions • Gel Electrolyte • Leak Resistant

CONSTANT VOLTAGE CHARGING CHARACTERISTICS



CYCLE SERVICE LIFE IN RELATION TO THE DEPTH OF DISCHARGE



CONSTANT CURRENT DISCHARGE (A, 25°C) CHARACTERISTICS

FV/ Time	15 Min	30 Min	60 Min	2 Hr	3 Hr	4 Hr	5 Hr	8 Hr	10 Hr	20 Hr
9.60V	366.3	207.9	128.7	72.4	54.5	41.4	37.8	24.1	20.1	10.2
10.2V	351.5	200.0	123.8	71.3	53.0	40.9	36.6	23.9	20.1	10.2
10.5V	344.5	195.0	120.8	70.7	52.6	40.6	36.3	23.8	20.0	10.1
10.8V	333.6	190.1	117.8	69.8	51.9	39.4	35.9	23.5	20.0	10.1

CONSTANT CURRENT DISCHARGE (W, 25°C) CHARACTERISTICS

FV/ Time	15 Min	30 Min	60 Min	2 Hr	3 Hr	4 Hr	5 Hr	8 Hr	10 Hr	20 Hr
9.60V	4022.4	2332.4	1467.2	837.5	632.6	487.1	439.6	285.1	239.6	122.8
10.2V	3861.0	2239.4	1410.8	824.7	622.7	481.1	432.6	283.1	238.5	121.8
10.5V	3782.8	2187.9	1376.1	817.7	617.8	477.3	428.7	282.2	237.6	120.8
10.8V	3686.0	2127.5	1338.5	807.8	610.8	463.3	424.7	278.2	236.8	120.8

CONSTANT CURRENT DISCHARGE (W, 25°C) CHARACTERISTICS

Battery Type		-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	45°C
Gel Battery	12V	50%	70%	83%	85%	90%	98%	100%	102%	104%	105%

* The above are average and data obtained from the first 3 charge / discharge cycles. These are not minimum values.

ORDERING INFORMATION

E122002G	ExTell Gel Battery 12V 200Ah, Gray
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GEL BATTERY 12V 250AH

Power Backup Solutions • Gel Electrolyte • Leak Resistant

Product ID
E122502G



ExTell Gel Batteries are reliable, maintenance free batteries with a Silica Gel Electrolyte. Capable of absorbing shocks, Gel batteries are leak proof and deep cycle batteries that can be discharged completely and recharged to work like new.

Features

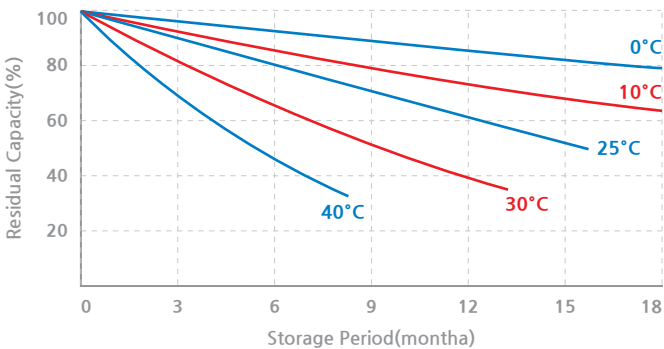
- ✓ Maintenance Free
- ✓ Leak Resistant
- ✓ Resistant to Vibration
- ✓ Deep Cycle discharge and recharge

PARAMETER CHART

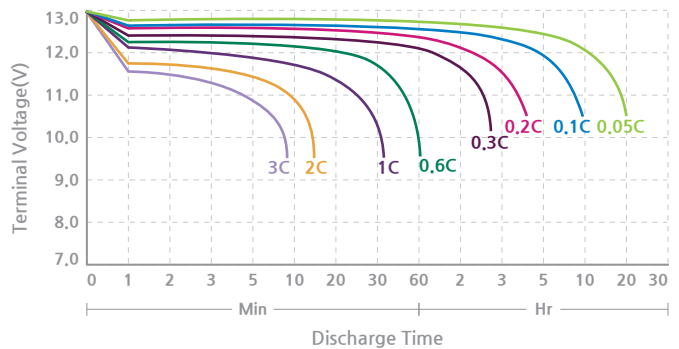
Volts	12V	
Capacity (25°C)	20 Hours Rate (25A)	250Ah
Discharge Current Testing (25°C)	1 Hours Rate (137.5A)	138Ah
	3 Hours Rate (62.5A)	188Ah
	Internal Resistance	Full Charged Battery 25°C
Capacity Affected by Temperature	40°C	104%
	25°C	100%
	0°C	83%
	- 15°C	65%
	Residual Capacity (25°C)	Capacity after 3 Month Storage
	Capacity after 6 Month Storage	82%
	Capacity after 12 Month Storage	65%
	Change (Constant Voltage)	Cycle (25°C)
Float (25°C)		Charge Voltage 13.6 ~ 13.8A
Weight (Approx.)	72.3Kg	

* The above are average and data obtained from the first 3 charge / discharge cycles. These are not minimum values.

RESIDUAL CAPACITY



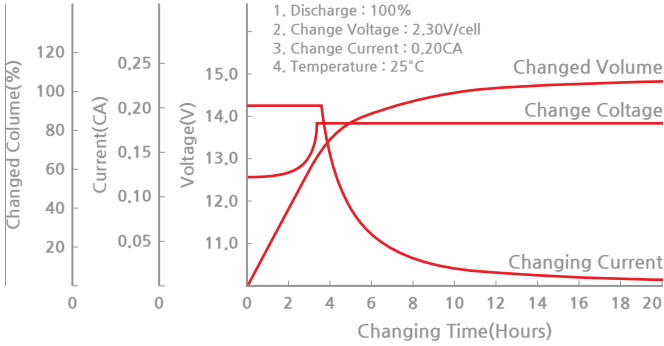
DISCHARGE CURRENT 25°C



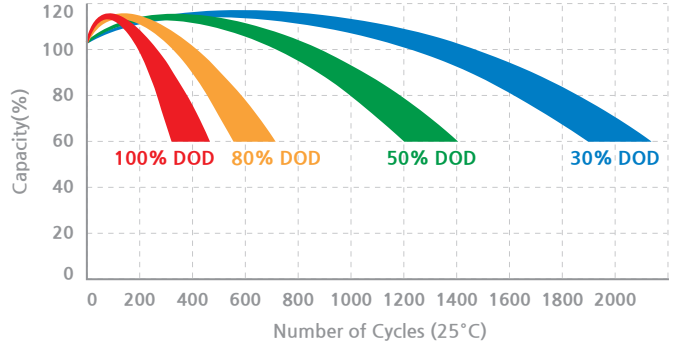
GEL BATTERY 12V 250AH

Power Backup Solutions • Gel Electrolyte • Leak Resistant

CONSTANT VOLTAGE CHARGING CHARACTERISTICS



CYCLE SERVICE LIFE IN RELATION TO THE DEPTH OF DISCHARGE



CONSTANT CURRENT DISCHARGE (A, 25°C) CHARACTERISTICS

FV/ Time	15 Min	30 Min	60 Min	2 Hr	3 Hr	4 Hr	5 Hr	8 Hr	10 Hr	20 Hr
9.60V	402.6	257.1	158.1	88.7	62.0	50.7	44.3	29.6	25.1	13.0
10.2V	386.1	246.4	151.4	87.3	61.1	50.1	43.7	29.3	25.1	12.9
10.5V	378.4	241.6	148.4	86.5	60.6	49.8	43.3	29.1	25.0	12.8
10.8V	366.7	234.8	144.6	85.6	59.9	48.2	42.8	29.1	25.0	12.8

CONSTANT CURRENT DISCHARGE (W, 25°C) CHARACTERISTICS

FV/ Time	15 Min	30 Min	60 Min	2 Hr	3 Hr	4 Hr	5 Hr	8 Hr	10 Hr	20 Hr
9.60V	4421.2	2884.4	1802.6	1026.5	729.6	596.7	523.9	354.1	294.0	156.2
10.2V	4243.7	2769.0	1730.8	1010.9	718.9	588.9	516.1	351.2	293.2	154.3
10.5V	4154.4	2709.8	1692.0	1001.2	713.1	585.0	511.3	345.4	292.4	153.3
10.8V	4032.2	2631.2	1644.5	990.6	704.4	567.6	505.5	349.3	291.1	152.7

CONSTANT CURRENT DISCHARGE (W, 25°C) CHARACTERISTICS

Battery Type		-20°C	-10°C	0°C	5°C	10°C	20°C	25°C	30°C	40°C	45°C
Gel Battery	12V	50%	70%	83%	85%	90%	98%	100%	102%	104%	105%

* The above are average and data obtained from the first 3 charge / discharge cycles. These are not minimum values.

ORDERING INFORMATION

E122502G	ExTell Gel Battery 12V 250Ah, Gray
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NI CD BATTERY

Power Backup Solutions • High Reliability • Low Maintenance • High Performance

Product ID
EX20206N



Low Maintenance, ExTell Ni-Cd Rechargeable Battery is perfectly suited for applications in Telecommunication, Transit, Metallurgy, Mining, Lighting and several other sectors. It can be used for UPS Power Supply, Standby DC Power Supply as well as Energy storage application for Solar and Wind Energy.

Features

- ✓ Low Maintenance
- ✓ Long Life

ADDITIONAL FEATURES

- Steel Tape Electrode with no reaction with Electrolyte
- Terminal made of Steel or Copper with excellent electrical conductivity and high mechanical strength
- Gas Recombination efficiency of 85~95%
- Separator made of Polypropylene Fiber Felt
- High Strength, Anti Corrosive, Translucent Engineering Plastic Battery Case
- Reduced Water consumption up to 90%

TECHNICAL SPECIFICATIONS

Nominal Voltage	1.2V
Capacity	60Ah @ 5hr to 1.00V per cell @ 20°C (68°F)
Terminal	M16
Cell Case Material	PP
Recommended Operating Temperature	-50°C ~ +70°C (58°F to 158°F)
Dimensions (L x W x H)	80mm (3.1in) x 140mm (5.5in) x 365mm (14.4in)
Electrolyte Volume	1.8L
Weight	Max. 6Kg

CONSTANT CURRENT DISCHARGE (A, 25°C) CHARACTERISTICS

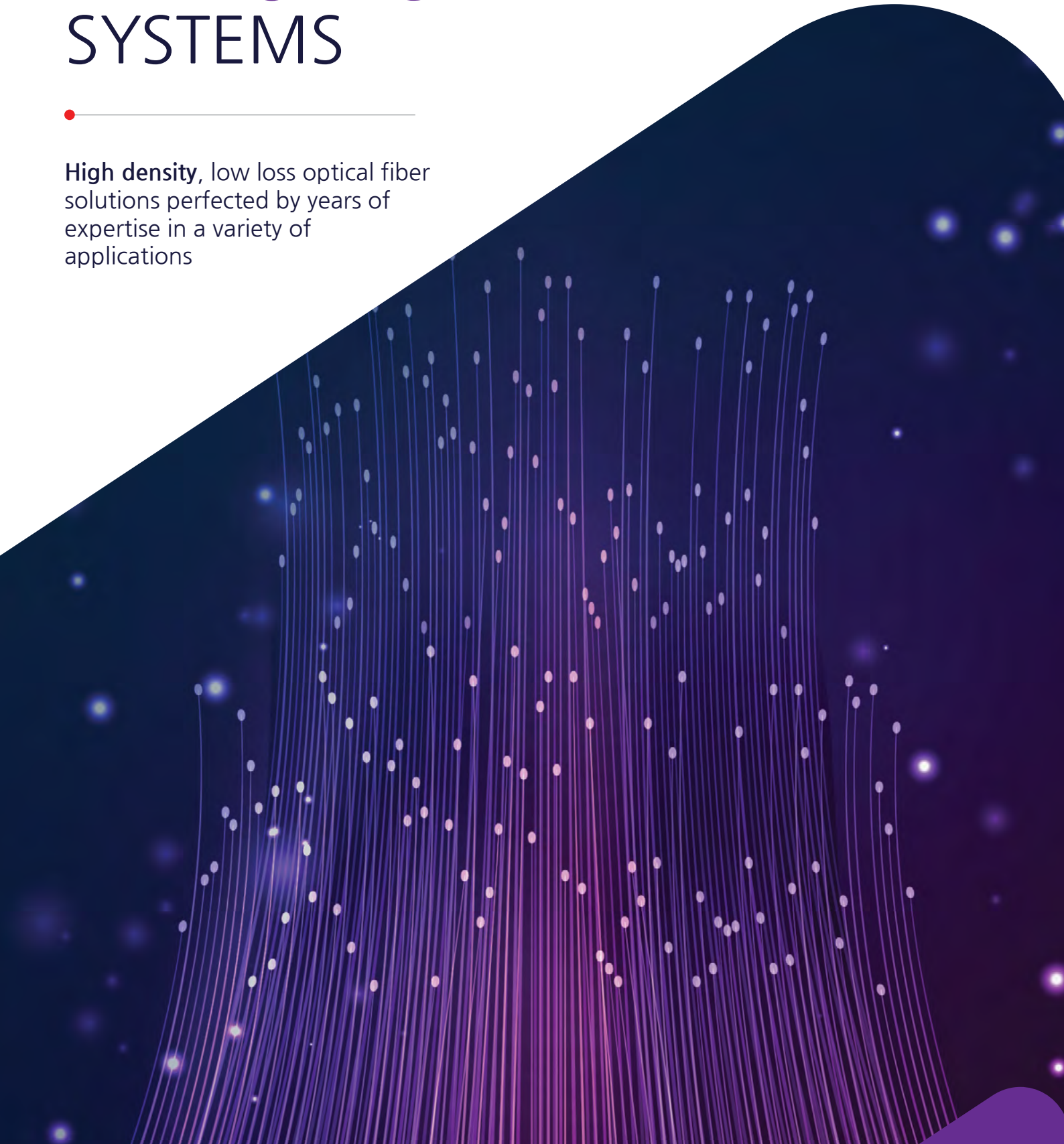
FV/Time	10 Hr	8 Hr	5 Hr	3 Hr	2 Hr	1.5 Hr	30 Min	20 Min	15 Min	10 Min	5 Min	1 Min	30 Sec	5 Sec	1 Sec
1.14	6.0	7.32	11.3	17.8	23.6	27.3	45.5	54.0	58.0	60.6	71	94.9	112	133	174
1.10	6.3	7.50	11.6	18.7	27.1	33.1	54.9	61.8	66.1	69.8	82	113	130	153	195
1.05	6.6	7.86	12.1	19.0	28.3	36.4	63.6	75.3	80.8	85.7	101	136	155	180	229
1.00	6.9	8.10	12.6	19.7	29.5	38.4	74.7	88.1	96.1	104	117	155	173	204	247

ORDERING INFORMATION

EX20206N	Ni Cd Battery 1.2V 60AH, 80x140x365mm with Electrolyte 6.0Kg
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FIBER OPTIC SYSTEMS

High density, low loss optical fiber solutions perfected by years of expertise in a variety of applications



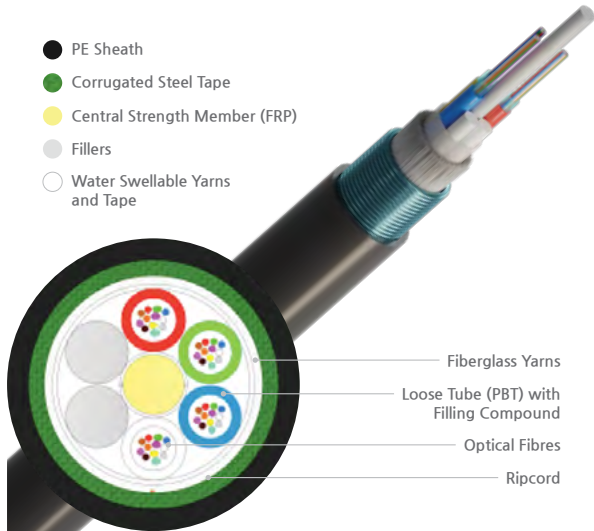
FIBER OPTIC CABLE MULTITUBE STEEL ARMORED

Fiber Optic Systems • High Mechanical Protection • Low Loss

Product ID
ES20LPMa-FCXXX

Default Cable Color
Black

Standards
IEC60794



ExTell Multi Tube Steel Armored cables are a strong, Industrial grade FO cable with strong Mechanical protection. With an external PE Jacket, the cable is perfect for Direct Burial applications and offers optimum protection against UV. With each core capable of holding upto 12 cores, Multitube FO Cables can accommodate a maximum of 288 Fibers and can be built for OS2, OM1, OM2, OM3, OM4 or OM5 depending on client requirement.

Features



Rodent Retardant



Direct Buried Installation

DESIGN

- FRP tensile strength and anti-buckling element
- Loose tube (PBT Ø 2.0mm) with filing compound
- Fillers (if applicable)
- Fibreglass yarns as strain relief
- Black UV stabilized PE sheath
- Dry yarns and tape to prevent longitudinal water penetration
- Optical fibres
- Water-swellable tape
- Corrugated steel tape armouring
- Sheath options: LSOH

MECHANICAL & ENVIRONMENTAL CHARACTERISTICS

Crush Performance	3500 N/10cm	IEC 60794-1-2-E3, Δα Reversible
Bending Radius	Static: 15 x D	IEC 60794-1-2-E6, Δα≤0,05 dB
	Dynamic: 20 x D	
Water Penetration	3[m] Sample, 1[m] Head, 24[h]	IEC 60794-1-2-F5, No Leakage

Temperature Range

Installation	-15 to +55 C	IEC 60794-1-2-F1, Δα≤0,05 dB/km
Operation	-40 to +70 C	
Transport and Storage	-40 to +70 C	

FIBER OPTIC CABLE MULTITUBE STEEL ARMORED

Fiber Optic Systems • High Mechanical Protection • Low Loss

CABLE DESIGNS

Variant	Fibers	Fibers per Tube	Total Elements	Active Tubes	Nominal Dia (mm) (±5%)	Nominal Weight (kg/km) (±10%)	Max Short Term Tensile Load (N)	Max long term tensile load (N)
1 - 6T x 12F	12 - 72	12	6	1 - 6	11.4	130	2700	1400
8T x 12F	96	12	8	8	12.6	160	2700	1400
12T x 12F	144	12	12	12	14.2	220	2700	1400
16T x 12F	192	12	16	16	15.2	220	2700	1400
18T x 12F	216	12	18	18	15.2	220	2700	1400
20T x 12F	240	12	24	20	17.2	270	2700	1400
24T x 12F	288	12	24	24	17.2	272	2700	1400

Other Designs on Demand

ORDERING INFORMATION

ES2OLP-MA-FC004	FO OD Cable, Multitube, Steel Armored W/Central Strength Member, SM9/125, 4C, PE	ES2OLP-MA-FC006	FO OD Cable, Multitube, Steel Armored W/Central Strength Member, SM9/125, 6C, PE
ES2OLP-MA-FC008	FO OD Cable, Multitube, Steel Armored W/Central Strength Member, SM9/125, 8C, PE	ES2OLP-MA-FC012	FO OD Cable, Multitube, Steel Armored W/Central Strength Member, SM9/125, 12C, PE
ES2OLP-MA-FC024	FO OD Cable, Multitube, Steel Armored W/Central Strength Member, SM9/125, 24C, PE	ES2OLP-MA-FC036	FO OD Cable, Multitube, Steel Armored W/Central Strength Member, SM9/125, 36C, PE
ES2OLP-MA-FC048	FO OD Cable, Multitube, Steel Armored W/Central Strength Member, SM9/125, 48C, PE	ES2OLP-MA-FC072	FO OD Cable, Multitube, Steel Armored W/Central Strength Member, SM9/125, 72C, PE
ES2OLP-MA-FC096	FO OD Cable, Multitube, Steel Armored W/Central Strength Member, SM9/125, 96C, PE	ES2OLP-MA-FC144	FO OD Cable, Multitube, Steel Armored W/Central Strength Member, SM9/125, 144C, PE

FIBER OPTIC CABLE

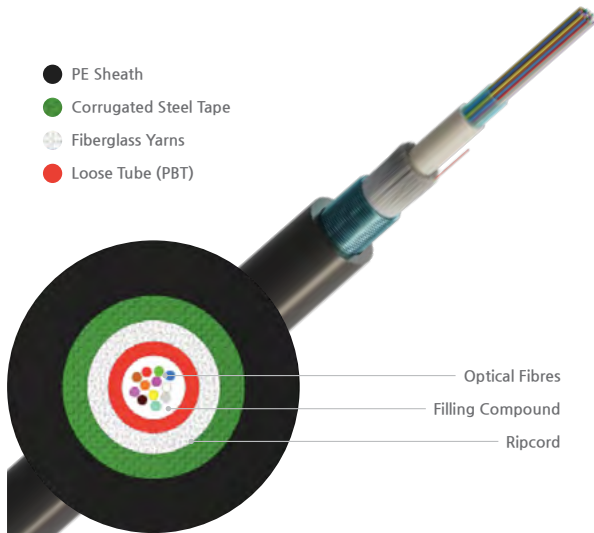
UNITUBE STEEL ARMORED

Fiber Optic Systems • High Quality • Standard Drum Size: 2km

Product ID
ES20LPUA-FCXXX

Default Cable Color
Black

Standards
IEC60794



- PE Sheath
- Corrugated Steel Tape
- Fiberglass Yarns
- Loose Tube (PBT)

Optical Fibres
Filling Compound
Ripcord

ExTell Unitube Steel Armored cables are constructed with a design that can hold up to 24 Fibers in a single tube. With a PE Jacket and Steel Armoring, the outer sheath are strong and capable of protecting the fibers through any installation giving perfect optical signal transmission.

The same construction is available for OS2, OM1, OM2, OM3, OM4, OM5 as per requirements.

Features



Rodent Retardant



Direct Buried Installation

DESIGN

- Loose tube (PBT Ø 3.0mm) with filing compound
- Water-swellaable tape
- Corrugated steel tape armouring
- Optical fibres
- Fibreglass yarns as strain relief
- Black UV stabilized PE sheath

MECHANICAL & ENVIRONMENTAL CHARACTERISTICS

Crush Performance	3000 N/10cm	IEC 60794-1-2-E3, $\Delta\alpha$ Reversible
Bending Radius	Static: 20 x D	IEC 60794-1-2-E6, $\Delta\alpha \leq 0,05$ dB
	Dynamic: 30 x D	
Water Penetration	3[m] Sample, 1[m] Head, 24[h]	IEC 60794-1-2-F5, No Leakage
Temperature Range		
Installation	-15 to +55 C	IEC 60794-1-2-F1, $\Delta\alpha \leq 0,05$ dB/km
Operation	-40 to +70 C	
Transport and Storage	-40 to +70 C	

FIBER OPTIC CABLE UNITUBE STEEL ARMORED

Fiber Optic Systems • High Quality • Standard Drum Size: 2km

CABLE DESIGNS

Variant	Fibers	Fibers per Tube	Total Elements	Active Tubes	Nominal Dia (mm) (±5%)	Nominal Weight (kg/km) (±10%)	Max Short Term Tensile Load (N)	Max long term tensile load (N)
1T x 2 - 24F	2 - 24	2 - 24	1	1	7.6	69	1500	750

Other Designs on Demand

ORDERING INFORMATION

ES20L-PUA-FC002	FO OD Cable, Unitube, Steel Armored W/Glass Yarn Strength Member, SM9/125, 2C, PE	ES20L-PUA-FC004	FO OD Cable, Unitube, Steel Armored W/Glass Yarn Strength Member, SM9/125, 4C, PE
ES20L-PUA-FC006	FO OD Cable, Unitube, Steel Armored W/Glass Yarn Strength Member, SM9/125, 6C, PE	ES20L-PUA-FC008	FO OD Cable, Unitube, Steel Armored W/Glass Yarn Strength Member, SM9/125, 8C, PE
ES20L-PUA-FC012	FO OD Cable, Unitube, Steel Armored W/Glass Yarn Strength Member, SM9/125, 12C, PE		

FIBER OPTIC CABLE

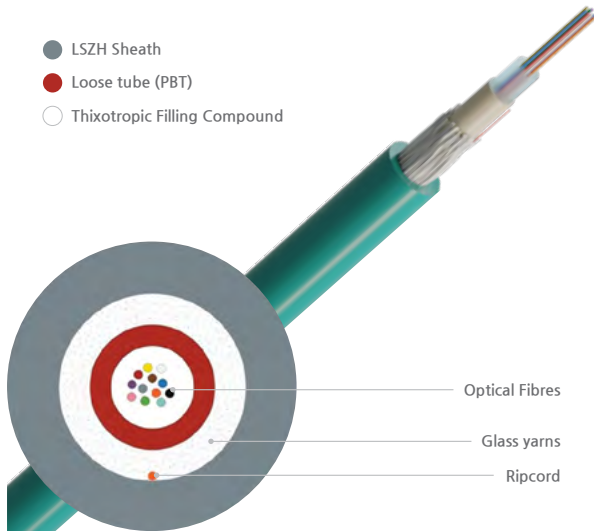
UNITUBE INDOOR OUTDOOR LSZH

Fiber Optic Systems • Light Rodent Protection • Dielectric Cable • LAN & FTTX

Product ID
CLLUU Series

Default Cable Color
Black

Standards
IEC60794



CLLUU Fiber Optic Cable Series from ExTell is an Indoor Outdoor Cable Series that can be laid into ducts as part of LAN Network Cabling. With a strong outer LSZH Sheath that is rated for safety requirements, CLLUU Series can be expanded to accommodate up to 24 Fiber Cores in a single central Unitube. The structure is available for all Multi Mode and Single Mode variants of the cable series.

DESIGN

- Unitube Loose tube (PBT Dia 2,5mm) with thixotropic filling compound
- Polyester ripcord
- Fiber glass yarn strain relief
- LSZH outer sheath

FIBER GEOMETRIC CHARACTERISTICS

	OM2	OM3	OM4	OS2
Core Diameter		50 + 2.5 μm		8.2 μm
Cladding Diameter		125 + 1.0 μm		125 + 0.7 μm
Core-Clad Concentricity		≤ 1.5 μm		≤ 0.5 μm
Cladding Non Circularity		≤ 1.0 %		≤ 0.7 %
Core Non Circularity		≤ 5.0 %		-
Coating Diameter		242 + 5 μm		
Coating Cladding Concentricity		< 12 μm		

FIBER OPTIC CABLE

UNITUBE INDOOR OUTDOOR LSZH

Fiber Optic Systems • Light Rodent Protection • Dielectric Cable • LAN & FTTX

MECHANICAL & ENVIRONMENTAL CHARACTERISTICS

Bending Radius	12 x cable diameter (during operation)	
	20 x cable diameter (during installation)	
Temperature Range		
Installation	-15 to +55 °C	
Operation	-20 to +60 °C	
Transport and Storage	-40 to +70 °C	
Test	Method	Requirements
Tensile Strength	Sustained load: 400N	Attenuation increase: $\Delta\text{atten} \leq 0.05\text{dB/km}$ @ 1550nm (after test) No major damage to fiber
	Extended load: 1300N	Attenuation increase: $\Delta\text{atten} \leq 0.05\text{dB/km}$ @ 1550nm (after test) No major damage to fiber
Crush Resistance	Load: 1500 N / 10 cm / 5 minutes	$\Delta \leq 0.1\text{dB}$ @ 1550nm (during & after test) No jacket cracking and fiber break
Impact Resistance	Impact energy: 10 J	$\Delta \leq 0.1\text{dB}$ @ 1550nm (during & after test) No jacket crack or fiber break
Torsion	Cable length twisted: 2m	$\Delta \leq 0.1\text{dB}$ @ 1550nm (after test) No jacket crack or fiber break
	No. of cycles: 5	
	Twist angle: Starting position to -180° to starting position to +180° and back (360° total)	
	Load: 100N	
Repeated Bending	R=20 x Outer Dia	$\Delta \alpha \leq 0.1\text{dB}$ @ 1550nm (after test) No jacket crack or fiber break
Bending	Mandrel radius: 12 x Outer Dia / 5 turns / 3 cycles	$\Delta \alpha \leq 0.1\text{dB}$ @ 1550nm (after test) No jacket crack or fiber break
Water penetration	Water head: 1m	Negative Water Leak
	Sample length: 3m	
	Time: 24 hrs	
CPR Class		Dca - s2, d0, a1

FIBER OPTIC CABLE

UNITUBE INDOOR OUTDOOR LSZH

Fiber Optic Systems • Light Rodent Protection • Dielectric Cable • LAN & FTTX

FIBER TRANSMISSION CHARACTERISTICS

		OM2		OM3		OM4		OS2	
Operating Wavelength	nm	850	1300	850	1300	850	1300	1310	1550
Minimum OFL Bandwidth	MHz.km	700	500	1500	500	3500	500	-	-
Minimum Laser Bandwidth	MHz.km	950	-	2000	-	4700	-	-	-
Max Attenuation	dB/km	≤ 2.3	≤ 0.6	≤ 2.3	≤ 0.6	≤ 2.3	≤ 0.6	≤ 0.35	≤ 0.20

ORDERING INFORMATION

No of Cores	OS2	OM2	OM3	OM4	OM5
4	ES2CLLUU-FC004	EM2CLLUU-FC004	EM3CLLUU-FC004	EM4CLLUU-FC004	EM5CLLUU-FC004
6	ES2CLLUU-FC006	EM2CLLUU-FC006	EM3CLLUU-FC006	EM4CLLUU-FC006	EM5CLLUU-FC006
8	ES2CLLUU-FC008	EM2CLLUU-FC008	EM3CLLUU-FC008	EM4CLLUU-FC008	EM5CLLUU-FC008
12	ES2CLLUU-FC012	EM2CLLUU-FC012	EM3CLLUU-FC012	EM4CLLUU-FC012	EM5CLLUU-FC012
16	ES2CLLUU-FC016	EM2CLLUU-FC016	EM3CLLUU-FC016	EM4CLLUU-FC016	EM5CLLUU-FC016
24	ES2CLLUU-FC024	EM2CLLUU-FC024	EM3CLLUU-FC024	EM4CLLUU-FC024	EM5CLLUU-FC024

FIBER OPTIC CABLE

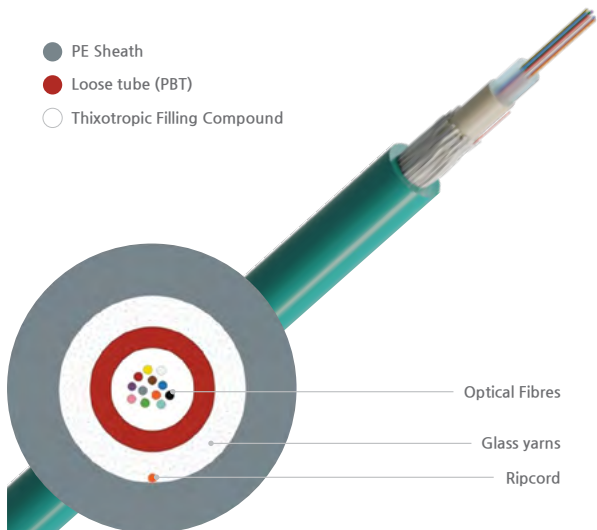
UNITUBE INDOOR OUTDOOR PE

Fiber Optic Systems • Light Rodent Protection • Dielectric Cable • LAN & FTTX

Product ID
CLPUU Series

Default Cable Color
Black

Standards
IEC60794



CLPUU Fiber Optic Cable Series from ExTell is an Indoor Outdoor Cable Series that can be laid into ducts as part of LAN Network Cabling. With a strong outer PE Sheath that is rated for safety requirements, CLPUU Series can be expanded to accommodate up to 24 Fiber Cores in a single central Unitube. The structure is available for all Multi Mode and Single Mode variants of the cable series.

DESIGN

- Unitube Loose tube (PBT Dia 2,5mm) with thixotropic filling compound
- Polyester ripcord
- Fiber glass yarn strain relief
- PE outer sheath

FIBER GEOMETRIC CHARACTERISTICS

	OM2	OM3	OM4	OS2
Core Diameter		50 + 2.5 μm		8.2 μm
Cladding Diameter		125 + 1.0 μm		125 + 0.7 μm
Core-Clad Concentricity		≤ 1.5 μm		≤ 0.5 μm
Cladding Non Circularity		≤ 1.0 %		≤ 0.7 %
Core Non Circularity		≤ 5.0 %		-
Coating Diameter		242 + 5 μm		
Coating Cladding Concentricity		< 12 μm		

FIBER OPTIC CABLE

UNITUBE INDOOR OUTDOOR PE

Fiber Optic Systems • Light Rodent Protection • Dielectric Cable • LAN & FTTH

MECHANICAL & ENVIRONMENTAL CHARACTERISTICS

Bending Radius	12 x cable diameter (during operation)	
	20 x cable diameter (during installation)	
Temperature Range		
Installation	-15 to +55 °C	
Operation	-20 to +60 °C	
Transport and Storage	-40 to +70 °C	
Test	Method	Requirements
Tensile Strength	Sustained load: 400N	Attenuation increase: $\Delta\text{atten} \leq 0.05\text{dB/km @ 1550nm}$ (after test) No major damage to fiber
	Extended load: 1300N	Attenuation increase: $\Delta\text{atten} \leq 0.05\text{dB/km @ 1550nm}$ (after test) No major damage to fiber
Crush Resistance	Load: 1500 N / 10 cm / 5 minutes	$\Delta \leq 0.1\text{dB @ 1550nm}$ (during & after test) No jacket cracking and fiber break
Impact Resistance	Impact energy: 10 J	$\Delta \leq 0.1\text{dB @ 1550nm}$ (during & after test) No jacket crack or fiber break
Torsion	Cable length twisted: 2m	$\Delta \leq 0.1\text{dB @ 1550nm}$ (after test) No jacket crack or fiber break
	No. of cycles: 5	
	Twist angle: Starting position to -180° to starting position to +180° and back (360° total)	
	Load: 100N	
Repeated Bending	R=20 x Outer Dia	$\Delta \alpha \leq 0.1\text{dB @ 1550nm}$ (after test) No jacket crack or fiber break
Bending	Mandrel radius: 12 x Outer Dia / 5 turns / 3 cycles	$\Delta \alpha \leq 0.1\text{dB @ 1550nm}$ (after test) No jacket crack or fiber break
Water penetration	Water head: 1m	Negative Water Leak
	Sample length: 3m	
	Time: 24 hrs	
CPR Class	Dca - s2, d0, a1	

FIBER OPTIC CABLE

UNITUBE INDOOR OUTDOOR PE

Fiber Optic Systems • Light Rodent Protection • Dielectric Cable • LAN & FTTX

FIBER TRANSMISSION CHARACTERISTICS

		OM2		OM3		OM4		OS2	
Operating Wavelength	nm	850	1300	850	1300	850	1300	1310	1550
Minimum OFL Bandwidth	MHz.km	700	500	1500	500	3500	500	-	-
Minimum Laser Bandwidth	MHz.km	950	-	2000	-	4700	-	-	-
Max Attenuation	dB/km	≤ 2.3	≤ 0.6	≤ 2.3	≤ 0.6	≤ 2.3	≤ 0.6	≤ 0.35	≤ 0.20

ORDERING INFORMATION

No of Cores	OS2	OM2	OM3	OM4	OM5
4	ES2CLPUU-FC004	EM2CLPUU-FC004	EM3CLPUU-FC004	EM4CLPUU-FC004	EM5CLPUU-FC004
6	ES2CLPUU-FC006	EM2CLPUU-FC006	EM3CLPUU-FC006	EM4CLPUU-FC006	EM5CLPUU-FC006
8	ES2CLPUU-FC008	EM2CLPUU-FC008	EM3CLPUU-FC008	EM4CLPUU-FC008	EM5CLPUU-FC008
12	ES2CLPUU-FC012	EM2CLPUU-FC012	EM3CLPUU-FC012	EM4CLPUU-FC012	EM5CLPUU-FC012
16	ES2CLPUU-FC016	EM2CLPUU-FC016	EM3CLPUU-FC016	EM4CLPUU-FC016	EM5CLPUU-FC016
24	ES2CLPUU-FC024	EM2CLPUU-FC024	EM3CLPUU-FC024	EM4CLPUU-FC024	EM5CLPUU-FC024

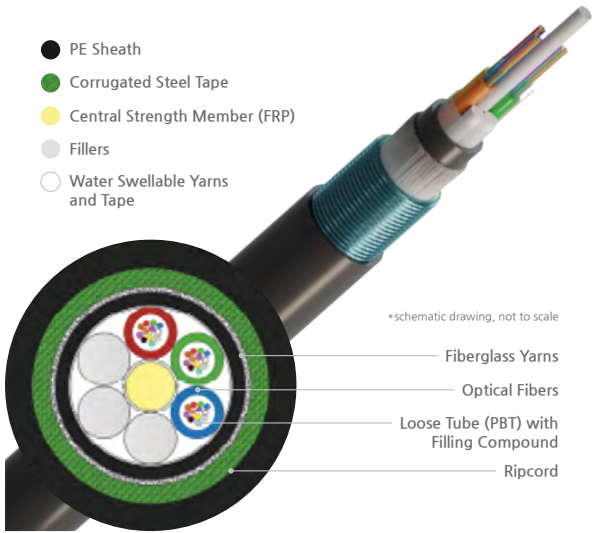
DOUBLE SHEATH STEEL ARMOR - OLPMB

Fiber Optic Systems • High Mechanical Protection • Low Loss • High Rodent Protection

Product ID
OLPMB

Default Cable Color
Black

Standards
IEC60794



ExTell OLPMB FO Cables are a series of Armored, Loose Tube Fiber cables that has double PE Sheath and Steel Tape Armor which gives highest Mechanical Protection. Ideally suited for Duct/Direct Buried installations, OLPMB Cables offer high levels of Rodent Protection when compared to other normal distribution cables. With a Multitube structure, OLPMB Cables can accommodate all Single Mode and Multi Mode variants as per requirements.

Features



Rodent Retardant



Direct Buried Installation

DESIGN

- FRP strength and anti-buckling element
- Loose tube (PBT Ø 2.0mm) with filing compound
- Fillers (if applicable)
- Corrugated steel tape armouring
- Sheath options: LSOH, PA etc
- Dry yarns and tape to prevent moisture into the cable
- Optical Fibers
- Fiberglass yarns as strain relief
- Double UV stabilized PE sheath

MECHANICAL & ENVIRONMENTAL CHARACTERISTICS

Crush Performance	4000 N/10 cm	IEC 60794-1-21-E3, $\Delta\alpha$ reversible
Bending Radius	Static 20 x D	IEC 60794-1-21-E6, $\Delta\alpha \leq 0,05$ dB
	Dynamic 30 x D	
Water Penetration	3m sample, 1m head, 24h	IEC 60794-1-22-F5, no leakage
Temperature Range		
Installation	-15 to +55 °C	IEC 60794-1-22-F1, $\Delta\alpha \leq 0,05$ dB/km
Operation	-40 to +70 °C	
Transport and Storage	-40 to +70 °C	

DOUBLE SHEATH STEEL ARMOR - OLPMB

Fiber Optic Systems • High Mechanical Protection • Low Loss • High Rodent Protection

FIBER GEOMETRIC CHARACTERISTICS

	OM2	OM3	OM4	OS2
Core Diameter	50 + 2.5 µm			8.2 µm
Cladding Diameter	125 + 1.0 µm			125 + 0.7 µm
Core-Clad Concentricity	≤ 1.5 µm			≤ 0.5 µm
Cladding Non Circularity	≤ 1.0 %			≤ 0.7 %
Core Non Circularity	≤ 5.0 %			-
Coating Diameter	242 + 5 µm			
Coating Cladding Concentricity	< 12 µm			

FIBER TRANSMISSION CHARACTERISTICS

		OM2		OM3		OM4		OS2	
Operating Wavelength	nm	850	1300	850	1300	850	1300	1310	1550
Minimum OFL Bandwidth	MHz.km	700	500	1500	500	3500	500	-	-
Minimum Laser Bandwidth	MHz.km	950	-	2000	-	4700	-	-	-
Max Attenuation	dB/km	≤ 2.3	≤ 0.6	≤ 2.3	≤ 0.6	≤ 2.3	≤ 0.6	≤ 0.35	≤ 0.20

CABLE DESIGNS

Variant	Fibers	Fibers per tube	Total elements	Active tubes	Ø nominal (±5%)	Nominal weight (±10%)	Max short term tensile load ≤ 0.5%	Max short term tensile load ≤ 0.33%	Max long term tensile load
					mm	kg/km	N	N	N
1-6T x 6F	6-36	6	6	1 - 6	11.4	168	4000	2700	1400
1-6T x 12F	12 - 72	12	6	1 - 6	11.4	169	4000	2700	1400
8T x 12F	96	12	8	8	13.2	203	4000	2700	1400
12T x 12F	144	12	12	12	15.2	269	4000	2700	1400

Other fibre counts available on demand

DOUBLE SHEATH STEEL ARMOR - OLPMB

Fiber Optic Systems • High Mechanical Protection • Low Loss • High Rodent Protection

ORDERING INFORMATION

No of Cores	OS2	OM2	OM3	OM4	OM5
4	ES2OLPMB-FC004	EM2OLPMB-FC004	EM3OLPMB-FC004	EM4OLPMB-FC004	EM5OLPMB-FC004
6	ES2OLPMB-FC006	EM2OLPMB-FC006	EM3OLPMB-FC006	EM4OLPMB-FC006	EM5OLPMB-FC006
8	ES2OLPMB-FC008	EM2OLPMB-FC008	EM3OLPMB-FC008	EM4OLPMB-FC008	EM5OLPMB-FC008
12	ES2OLPMB-FC012	EM2OLPMB-FC012	EM3OLPMB-FC012	EM4OLPMB-FC012	EM5OLPMB-FC012
16	ES2OLPMB-FC016	EM2OLPMB-FC016	EM3OLPMB-FC016	EM4OLPMB-FC016	EM5OLPMB-FC016
24	ES2OLPMB-FC024	EM2OLPMB-FC024	EM3OLPMB-FC024	EM4OLPMB-FC024	EM5OLPMB-FC024

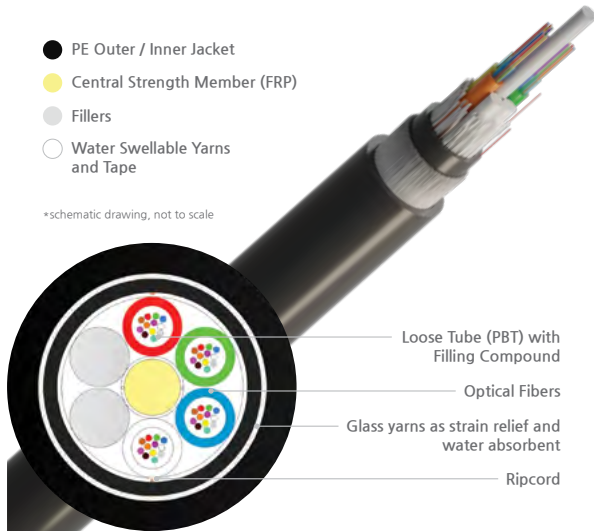
DOUBLE JACKET MULTITUBE PE - OLPMC

Fiber Optic Systems • High Mechanical Protection • Low Loss

Product ID
OLPMC

Default Cable Color
Black

Standards
IEC60794



ExTell OLPMC FO Cables are a series of Non Armored, Loose Tube Fiber cables that has double PE Sheath which gives adequate Mechanical Protection but greater flexibility than Armored Cables. Ideally suited for Duct installations, OLPMC Cables offer relatively good Rodent Protection when compared to other normal distribution cables. With a Multitube structure, OLPMC Cables can accommodate all Single Mode and Multi Mode variants as per requirements.

Features



Rodent Retardant



Direct Buried Installation



Fully Dielectric Cable

DESIGN

- FRP strength and anti-buckling element
- Loose tube with filling compound (PBT Ø 2.0mm)
- Glass yarns as tensile elements and rodent protection
- Outer sheath options: LSOH, PA etc
- Optical Fibers
- Dry yarns and tape to prevent moisture into the cable
- Double UV stabilized PE sheath

MECHANICAL & ENVIRONMENTAL CHARACTERISTICS

Crush Performance	3500 N/10 cm	IEC 60794-1-21-E3, reversible
Bending Radius	15 x D (10 cycles)	IEC 60794-1-21-E6, $\Delta\alpha \leq 0,05$ dB, reversible
Temperature Range		
Installation	-15 to +55 °C	IEC 60794-1-22-F1, $\Delta\alpha \leq 0,05$ dB/km, reversible
Operation	-40 to +70 °C	
Transport and Storage	-40 to +70 °C	

DOUBLE JACKET MULTITUBE PE - OLPMC

Fiber Optic Systems • High Mechanical Protection • Low Loss

FIBER GEOMETRIC CHARACTERISTICS

	OM2	OM3	OM4	OS2
Core Diameter	50 + 2.5 μm			8.2 μm
Cladding Diameter	125 + 1.0 μm			125 + 0.7 μm
Core-Clad Concentricity	≤ 1.5 μm			≤ 0.5 μm
Cladding Non Circularity	≤ 1.0 %			≤ 0.7 %
Core Non Circularity	≤ 5.0 %			-
Coating Diameter	242 + 5 μm			
Coating Cladding Concentricity	< 12 μm			

FIBER TRANSMISSION CHARACTERISTICS

		OM2		OM3		OM4		OS2	
Operating Wavelength	nm	850	1300	850	1300	850	1300	1310	1550
Minimum OFL Bandwidth	MHz.km	700	500	1500	500	3500	500	-	-
Minimum Laser Bandwidth	MHz.km	950	-	2000	-	4700	-	-	-
Max Attenuation	dB/km	≤ 2.3	≤ 0.6	≤ 2.3	≤ 0.6	≤ 2.3	≤ 0.6	≤ 0.35	≤ 0.20

CABLE VARIANTS

6 Elements Design



8 Elements Design



12 Elements Design



24 Elements Design



DOUBLE JACKET MULTITUBE PE - OLPMC

Fiber Optic Systems • High Mechanical Protection • Low Loss

CABLE DESIGNS

Variant	Fibers	Fibers per tube	Total elements	Active tubes	Ø nominal (±5%)	Nominal weight (±10%)	Max allowed tension	Max static tension
	Quantity pcs				mm	kg/km	N	N
1-6T x 4F	4 - 24	4	6	1 - 6	11.7	73	4400	2600
1-6T x 6F	6 - 36	6	6	1 - 6	11.7	73	4400	2600
1-6T x 12F	12 - 72	12	6	1 - 6	11.8	105	4100	2000
8T x 6F	48	6	8	8	13.0	124	4100	2300
8T x 12F	96	12	8	8	13.0	128	4100	2000
12T x 12F	144	12	12	12	15.5	180	4600	2200
16T x 12F (2 layers)	192	12	16	16	15.9	185	4600	2200
18T x 12F (2 layers)	216	12	18	18	15.9	187	4600	2200
24T x 12F (2 layers)	288	12	24	24	17.6	193	5000	2600
36T x 12F (3 layers)	432	12	36	36	20.6	333	5000	2600

Other fibre counts available on demand

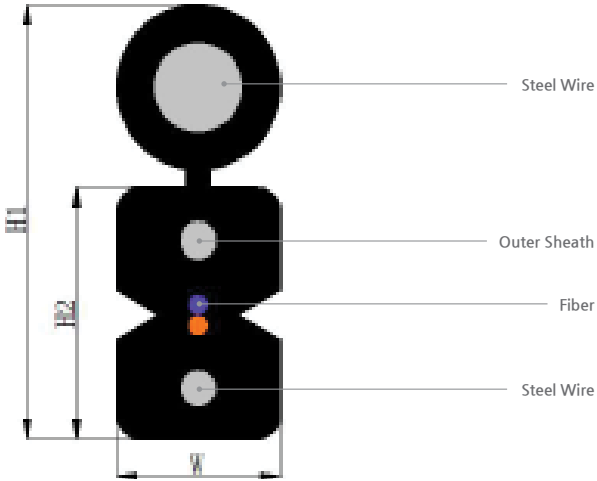
ORDERING INFORMATION

No of Cores	OS2	OM2	OM3	OM4	OM5
4	ES2OLPMC-FC004	EM2OLPMC-FC004	EM3OLPMC-FC004	EM4OLPMC-FC004	EM5OLPMC-FC004
6	ES2OLPMC-FC006	EM2OLPMC-FC006	EM3OLPMC-FC006	EM4OLPMC-FC006	EM5OLPMC-FC006
8	ES2OLPMC-FC008	EM2OLPMC-FC008	EM3OLPMC-FC008	EM4OLPMC-FC008	EM5OLPMC-FC008
12	ES2OLPMC-FC012	EM2OLPMC-FC012	EM3OLPMC-FC012	EM4OLPMC-FC012	EM5OLPMC-FC012
16	ES2OLPMC-FC016	EM2OLPMC-FC016	EM3OLPMC-FC016	EM4OLPMC-FC016	EM5OLPMC-FC016
24	ES2OLPMC-FC024	EM2OLPMC-FC024	EM3OLPMC-FC024	EM4OLPMC-FC024	EM5OLPMC-FC024

FIBER OPTIC OUTDOOR FTTH CABLE

Fiber Optic Systems • High Mechanical Protection • Low Loss

Product ID
ES2XXL-FTTH002



ExTell FTTH Outdoor Drop cable is high quality, strong with perfect seamless fiber connectivity for all FTTH requirements. Available in both 2C and 4C Fiber, it has a Steel Wire messenger support and LSZH sheath.

Features

- ✓ Metallic Strength Member
- ✓ LSZH Sheath Material
- ✓ Figure 8 Structure with Messenger Wire
- ✓ Indoor and Outdoor Cabling
- ✓ FTTH
- ✓ Small Diameter and Light Weight
- ✓ Economical

CABLE CONSTRUCTION

Fiber	Cores	2 (Blue Orange)
	Type	ITU-T G.657A2
Materials	Strength Member	Steel wire
	Outer Sheath	LSZH (Low Smoke Zero Halogen, Black)
Dimensions	H1	5.3 ± 0.3 mm
	H2	3.0 ± 0.1 mm
	W	2.0 ± 0.1 mm
Cable Weight	20Kg / Km	

TECHNICAL SPECIFICATIONS

Attenuation	≤ 0.4 dB/Km @ 1310 nm; ≤ 0.3 dB/Km @ 1550 nm
Tensile Strength IEC 60794-1-21 E1	Short-term load: 600N; Additional attenuation after test ≤ 0.05dB Long-term load: 300N; Additional attenuation ≤ 0.05dB
Crush resistance IEC 60794-1-21 E3	Crush on the flat surface Short-term load: 2200N/100mm; Additional attenuation after test ≤ 0.05dB Long-term load: 1000N/100mm; Additional attenuation ≤ 0.05dB
Minimum Bending Radius	In the direction of the flat surface Operating: 10W; Installation: 20W
Environmental Performance	RoHS

TEMPERATURE RANGE

Operating -20~+70°C	Transportation and Storage -20~+70°C	Installation -10~+60°C
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ORDERING INFORMATION

ES2INL-FTTH002	FTTH 2 core SM, Indoor non metal strength member LSZH, White	ES2OML-FTTH002	FTTH 2 core SM, Outdoor metallic strength member LSZH, Black
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FTTH TERMINAL BOX

Fiber Optic Systems • Light • Compact • High grade Plastic

Product ID
EFU00XX-TB



ExTell's Fiber FTTH Terminal Box is available in multiple core options and is a perfect light-weight, sturdy Product used to distribute and protect the optical fiber links in FTTH network. It can be conveniently installed on the wall or inside ONU Cabinets.

Features



Light Weight



Wall Mount

APPLICATIONS

- Indoor Use, Widely used in FTTH, CATV, Telecom and LAN
- Data Communication Networks

ADDITIONAL FEATURES

- Main Body - ABS & PC
- Compatible with LC, SC Adaptors
- Splice Organizer maximum 2 cores
- Cable around tray can be fusion fiber or cold welded with Pigtails
- Standard 86 Type Terminal Box
- Electrostatic Powder Coated Surface finish
- Operating Temperature: -25°C to 40°C

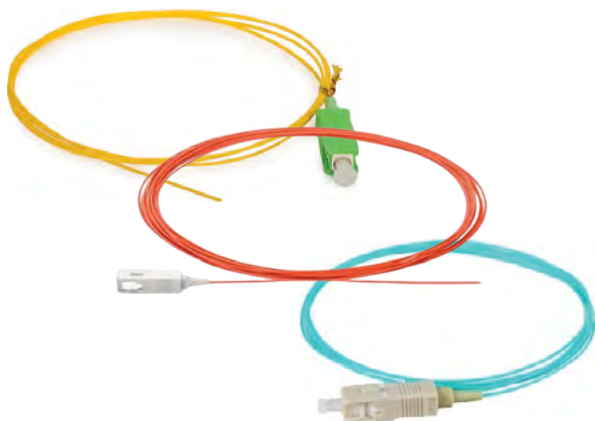
ORDERING INFORMATION

EFU0026-TB	FTTH Terminal Box for 2 Port	EFU0046-TB	FTTH Terminal Box for 4 Port
EFL2026-TB	FTTH Terminal Box for 2 Ports with SC simplex Adapter	EFL2046-TB	FTTH Terminal Box for 4 Ports with SC simplex Adapter
EFL2086-TB	FTTH Terminal Box for 8 fiber, indoor use with 8 SC simplex Adapters		

FIBER OPTIC PIGTAILS

Fiber Optic Systems • Seamless Connectivity

Product ID
ESXXU7V-PT01



ExTell's Fiber Optic Pigtails are single, short, tight buffered Fiber Optic cable with terminated connector at one end for easy termination. Available in both Single Mode and Multi Mode variances, ExTell FO Pigtails ensure perfect connectivity for each termination.

Features



Seamless connectivity



UPC and APC Connectors



Single Mode and Multi Mode

MECHANICAL & ENVIRONMENTAL CHARACTERISTICS

Cord	Type	Single Mode			Multi Mode				
		ST 9/125	SC 9/125	FC 9/125	ST 50/125, 62.5/125	SC 50/125, 62.5/125	FC 50/125, 62.5/125	SC & LC 50/125	
Ferrule Outer Diameter		2.5mm							
Connector	Boot Color	PC : Blue APC : Green			Black	Beige	Black	Grey	
	Ferrule	Zirconia							
	Spring	Stainless Steel					SP3		
	C-Ring	SK5M							
	Ring	Brass							
	Crimping Ring	Aluminium							
	Boot	Elastomer	Keyflex	Santropen	Elastomer	Keyflex	Santropen	Keyflex	
	Dust Cap	LD PE			PE	LD PE	LD PE	LD PE	
	Coupling Device	Brass	PBT	Brass	Brass	Brass	Brass	PBT	
	Frame	Brass	PBT	PBT	Brass	PBT	PBT	PBT	
	Washer	Brass							
	Cable	9/125 : LSZH Jacket			LSZH Jacket		LSZH Aramid & Jacket		
	Length	1m							
	Insertion Loss	< 0.3dB			< 0.3dB				
Return Loss	> 45dB			> 45dB					
Endface Radius	10 mm < R < 25 mm			10 mm < R < 25 mm					
Apex Offset	< 50 mm			< 50 mm					
Operating Temperature	-40°C to 85°C (-40°F to 185°F)								

FIBER OPTIC PIGTAILS

Fiber Optic Systems • Seamless Connectivity

ORDERING INFORMATION

ES21U7V-PT01	Fiber Optic Pigtail SM 9/125, PC/PVC Yellow 0.9mm tight buffer, ST/PC, 1m	ES22U7V-PT01	Fiber Optic Pigtail SM 9/125, PC/PVC Yellow 0.9mm tight buffer, SC/PC, 1m
ES23U7V-PT01	Fiber Optic Pigtail SM 9/125, PC/PVC Yellow 0.9mm tight buffer, FC/PC, 1m	ES24U7V-PT01	Fiber Optic Pigtail SM 9/125, PC/PVC Yellow 0.9mm tight buffer, LC/PC, 1m
ES21A7V-PT01	Fiber Optic Pigtail SM 9/125, APC/PVC Yellow 0.9mm tight buffer, ST/APC, 1m	ES22A7V-PT01	Fiber Optic Pigtail SM 9/125, APC/PVC Yellow 0.9mm tight buffer, SC/APC, 1m
ES23A7V-PT01	Fiber Optic Pigtail SM 9/125, APC/PVC Yellow 0.9mm tight buffer, FC/APC, 1m	ES24A7V-PT01	Fiber Optic Pigtail SM 9/125, APC/PVC Yellow 0.9mm tight buffer, LC/APC, 1m
ES21U7L-PT01	Fiber Optic Pigtail SM 9/125, PC/LSZH Yellow 0.9mm tight buffer, ST/PC, 1m	ES22U7L-PT01	Fiber Optic Pigtail SM 9/125, PC/LSZH Yellow 0.9mm tight buffer, SC/PC, 1m
ES23U7L-PT01	Fiber Optic Pigtail SM 9/125, PC/LSZH Yellow 0.9mm tight buffer, FC/PC, 1m	ES24U7L-PT01	Fiber Optic Pigtail SM 9/125, PC/LSZH Yellow 0.9mm tight buffer, LC/PC, 1m
ES21A7L-PT01	Fiber Optic Pigtail SM 9/125, APC/LSZH Yellow 0.9mm tight buffer, ST/APC, 1m	ES22A7L-PT01	Fiber Optic Pigtail SM 9/125, APC/LSZH Yellow 0.9mm tight buffer, SC/APC, 1m
ES23A7L-PT01	Fiber Optic Pigtail SM 9/125, APC/LSZH Yellow 0.9mm tight buffer, FC/APC, 1m	ES24A7L-PT01	Fiber Optic Pigtail SM 9/125, APC/LSZH Yellow 0.9mm tight buffer, LC/APC, 1m

FIBER MEDIA CONVERTER

Fiber Optic Systems • Seamless Connectivity

Product ID
E2M1A02-MC



Media converters are making the change from simple conversion devices to intelligent parts of your network. Media converters are used to convert copper to optical-fiber cabling, and vice versa. They can also be used to switch from multimode to single mode fiber, thus extending the fiber network considerably. They continue to offer a cost-effective means for deploying fiber without requiring to upgrade switches, routers and other IT infrastructures.

Features



Seamless connectivity



Single Mode and Multi Mode

FAST ETHERNET MEDIA CONVERTERS 10/100

- The 10/100 Base-TX to 100 Base-FX fast Ethernet converter, Multi-Mode SC/ST Fiber connector of Single-Mode SC/FC/ST Fiber connector.
- Six LED Display instant status monitoring for power, TX Fdx, FX(link /act), Fx100, Tx100

BASIC NETWORK CONNECTION

LED	Color	Function
FX 100	Green	Lit when 100 Base-FX operation
FX IINK / act	Green	Lit when fiber cable connection with remote device is good, blinks when any FX traffic is present
poWEr	Green	Lit when +5V power is available
FdX / col	Green	Lit when Full duplex Mode is enables, blinking when collision is present
tX 100	Green	Lit when 100Base-tX operation
tX IINK / act	Green	Lit when TP cable connection with remote device is good, blinks when any tX traffic is present

FIBER OPTIC INFORMATION & FIBER OPTIC DETAIL

Connector	SC/ST	SC	SC	SC	SC	SC
Fiber Type	Multi-Mode	Single-Mode	Single-Mode	Single-Mode	Single-Mode	Single-Mode
Wavelength	850 /1310nm	1310nm	1310nm	1310nm	1550nm	1550nm
Distance	2Km	25Km	40Km	60Km	80Km	100Km
Min tX pWr	-20.0dBm	-15.0dBm	-8.0dBm	-3.0dBm	-10.0dBm	-6.0dBm
Max tX pWr	-12.0dBm	-7.0dBm	-3.0dBm	-1.0dBm	-5.0dBm	-1.0dBm
Sensitivity	-31.0dBm	-32.0dBm	-33.0dBm	-36.0dBm	-35.0dBm	-36.0dBm
Link Budget	11.0dBm	-15.0dBm	-25.0dBm	-33.0dBm	-25.0dBm	-30.0dBm

FIBER MEDIA CONVERTER

Fiber Optic Systems • Seamless Connectivity

SINGLE FIBER INFORMATION

Connector	SC	SC	SC
Fiber Type	Single-Mode	Single-Mode	Single-Mode
Wavelength	1310/1510nm	1310/1510nm	1310/1510nm
Distance	20Km	40Km	60Km
Min tX pWr	-13.0dBm	-8.0dBm	-3/-8.0dBm
Max tX pWr	-6.0dBm	-3.0dBm	-1/-2.0dBm
Sensitivity	-36.0dBm	-36.0dBm	-36.0dBm
Link Budget	-23.0dBm	-28.0dBm	33/28.0dBm

TECHNICAL SPECIFICATIONS

Standards	IEEE802.3u Fast Ethernet 10/100 Base - TX and 100 Base - FX
Connectors	rJ45-utp and Fiber SC or ST Multimode rJ45 and SC/ST connector Single mode rJ45 and SC connector
LED	poWEr, FX100, FX link/act, tX Fdx, tX link/act, tX 100
Data Transfer Mode	10/100Mbps
Duplex Mode	Full or Half duplex Mode
Power Requirement	AC 100-260V DC 1A@+5V
Ambient Temperature	0 to 70 C
Humidity	5% to 90 °C
Dimensions	External power 26 x 71 x 97 mm (HxWxD)
Cable	UTP - CAT5e / CAT6 / CAT6a fiber - Multimode 50/125, 62.5/125

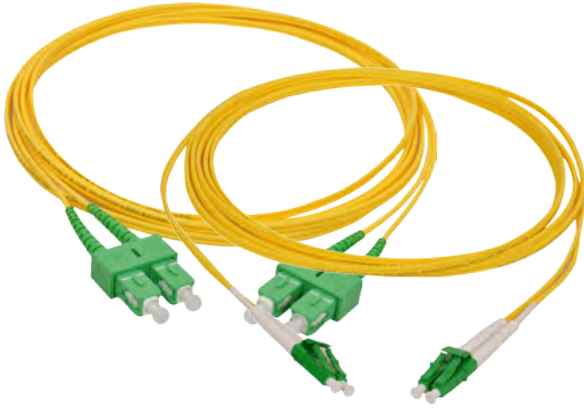
ORDERING INFORMATION

E2M1A02-MC	Media Converter SC MM 62.5/125, 10/100 Mbps, 2Km	E2M1B0055-MC	Media Converter SC MM 62.5/125, 10/100/1000 Mbps, 550MTR
E2M2A02-MC	Media Converter SC MM 50/125, 10/100 Mbps, 2Km	E2M1A-PDMC	Media Converter MM 62.5/125, 10/100 Mbps, POE (PD)
E2M1A-PSENC	Media Converter MM 62.5/125, 10/100 Mbps, POE (PSE)	E2M2A-PDMC	Media Converter MM 50/125, 10/100 Mbps, POE (PD)

FIBER OPTIC PATCH CORDS

Fiber Optic Systems • Seamless Connectivity

Product ID
EMXD0XXXV-PC0X



ExTell's Fiber Optic Patch Cords are perfectly terminated Fiber Optic Cables available in both simplex and duplex variances with a variety of connectors for termination. ExTell fiber Optic Patch Cords offer perfect seamless connectivity.

Features



Seamless connectivity



Single Mode and Multi Mode

MATERIALS

- Connector Housing: High Quality Plastic, Resistant to corrosion and high temperature
- Ferrule: High Quality Ceramic Ferrule

ADDITIONAL FEATURES

- SC, LC, ST, FC and MTRJ connectors
- Simplex & Duplex assemblies available with clips (SC & LC)
- Different connector performance range for specific application
- 900 pm tight buffer
- Armored option available
- Fully Automated preparation and polishing process

APPLICATIONS

- For use in 10 Gb/s high speed LAN networks over a 300 m indicative
- For use in 1 Gb/s high speed LAN networks over a 1000 m indicative
- Data Center cabling in data networks including backbone, riser & horizontal
- Link length at 850 nm (SX) wavelength using a laser launch
- High speed and legacy networks including Gigabit Ethernet, Fast Ethernet

TECHNICAL SPECIFICATION

Parameter	SM PC Connectors	SM APC Connectors	MM PC Connectors
ILMAX (61300-3-4)	≤ 0.17 dB	≤ 0.20 dB	≤ 0.20 dB
ILAVG (61300-3-4)	≤ 0.15 dB	≤ 0.16 dB	≤ 0.12 dB
RL (61300-3-6)	≥ 55 dB	≥ 65 dB	≥ 35 dB

FIBER OPTIC PATCH CORDS

Fiber Optic Systems • Seamless Connectivity

UPC CONNECTOR - ORDERING INFORMATION

Patch Cord	9/125, OS2	62.5/125, OM1	50/125, OM2	50/125, OM3	50/125, OM4
SC-SC UPC, 1M	ES2D037UV-PC01	EM1D038UV-PC01	EM2D038UV-PC01	EM3D031UV-PC01	EM4D035UV-PC01
LC-SC UPC, 1M	ES2D067UV-PC01	EM1D068UV-PC01	EM2D068UV-PC01	EM3D061UV-PC01	EM4D065UV-PC01
LC-LC UPC, 1M	ES2D047UV-PC01	EM1D048UV-PC01	EM2D048UV-PC01	EM3D041UV-PC01	EM4D045UV-PC01
SC-SC UPC, 3M	ES2D037UV-PC03	EM1D038UV-PC03	EM2D038UV-PC03	EM3D031UV-PC03	EM4D035UV-PC03
LC-SC UPC, 3M	ES2D067UV-PC03	EM1D068UV-PC03	EM2D068UV-PC03	EM3D061UV-PC03	EM4D065UV-PC03
LC-LC UPC, 3M	ES2D047UV-PC03	EM1D048UV-PC03	EM2D048UV-PC03	EM3D041UV-PC03	EM4D045UV-PC03

APC CONNECTOR - ORDERING INFORMATION

Patch Cord	9/125, OS2	62.5/125, OM1	50/125, OM2	50/125, OM3	50/125, OM4
SC-SC UPC, 1M	ES2D037AV-PC01	EM1D038AV-PC01	EM2D038AV-PC01	EM3D031AV-PC01	EM4D035AV-PC01
LC-SC UPC, 1M	ES2D067AV-PC01	EM1D068AV-PC01	EM2D068AV-PC01	EM3D061AV-PC01	EM4D065AV-PC01
LC-LC UPC, 1M	ES2D047AV-PC01	EM1D048AV-PC01	EM2D048AV-PC01	EM3D041AV-PC01	EM4D045AV-PC01
SC-SC UPC, 3M	ES2D037AV-PC03	EM1D038AV-PC03	EM2D038AV-PC03	EM3D031AV-PC03	EM4D035AV-PC03
LC-SC UPC, 3M	ES2D067AV-PC03	EM1D068AV-PC03	EM2D068AV-PC03	EM3D061AV-PC03	EM4D065AV-PC03
LC-LC UPC, 3M	ES2D047AV-PC03	EM1D048AV-PC03	EM2D048AV-PC03	EM3D041AV-PC03	EM4D045AV-PC03

FIBER OPTIC ODF TYPE PLC SPLITTER RACK MOUNTABLE

Fiber Optic Systems • Seamless Connectivity

Product ID
EFS2XX-XCA

All combinations of Splitters available
1 x N, 2 x N (N - 2, 4, 8, 16, 32, 64, 128)



ExTell FO Splitter is a Rack-Mountable splitter available in variances of 1/2x 04, 1/2 x 08, 1/2 x 16, 1/2 x 32. With a Powder Coated finish over aluminium alloy body, Rack Mount FO Splitter is easy to use and gives perfect connectivity for each installation.

Features



Rack Mountable



All variations

ADDITIONAL FEATURES

- Rack Mount 19" standard
- Surface: Electrostatic Powder Coated Surface finish - Black or Beige
- Body Material: Aluminium Alloy
- Full assembly (loaded) or empty panel

APPLICATIONS

- Premise data network cabling and installations
- FTTX, FTTH, PON, LAN
- Central office locations for telecom applications

AVAILABLE CONNECTOR TYPES

- FC/APC
- LC/APC
- FC/UPC
- LC/UPC
- SC/APC
- SC/UPC
- ST

DIMENSIONS (units in mm)

- 1 x 16 - 410 (W) x 230 (D) x 1U (H)
- 2 x 32 - 410 (W) x 230 (D) x 1U (H)

ORDERING INFORMATION

EFS232-LCA	Fiber Optic RM PLC Splitter, 2 x 32, LC APC Adaptor Type	EFS232-SCA	Fiber Optic RM PLC Splitter, 2 x 32, SC APC Adaptor Type
EFS208-LCA	Fiber Optic RM PLC Splitter, 2 x 08, LC APC Adaptor Type	EFS208-SCA	Fiber Optic RM PLC Splitter, 2 x 08, SC APC Adaptor Type

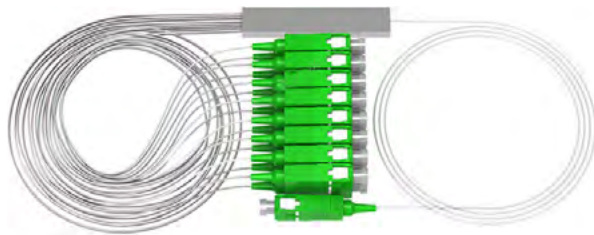


FIBER OPTIC MINI PLC SPLITTER

Fiber Optic Systems • Seamless Connectivity

Product ID
EFS202-M-FOS

All combinations of Splitters available
1 x N, 2 x N (N - 2, 4, 8, 16, 32, 64, 128)



ExTell Single-mode Planar Lightwave Circuit Splitter (PLC Splitter) is developed based on unique silica glass waveguide process with reliable precision aligned fiber pigtail in a miniature package.

It provides a low cost light distribution solution with small form factor and high reliability. The PLC S devices have high performance in terms of low insertion loss, low PDL, high return loss and excellent uniformity.

Features

- ✓ Compact design
- ✓ Low insertion loss and low PDL
- ✓ High channel counts
- ✓ Wide wavelength range
- ✓ High reliability

TECHNICAL PARAMETERS

Item	2 x 2	2 x 4	2 x 8	2 x 16	2 x 32	2 x 64	2 x 128
Fiber Type	G657 A						
Working Wavelength	1260 nm ~ 1650 nm						
Standard Insertion Loss (dB)	≤ 4.4	≤ 8.0	≤ 11.0	≤ 14.6	≤ 17.8	≤ 21.0	≤ 24.4
P - Grade Insertion Loss (dB)	≤ 4.2	≤ 7.7	≤ 10.8	≤ 14.1	≤ 17.4	≤ 20.7	≤ 24.0
Uniformity (dB)	≤ 0.8	≤ 1.0	≤ 1.2	≤ 1.5	≤ 1.8	≤ 2.0	≤ 3.0
PDL (dB)	≤ 0.2	≤ 0.2	≤ 0.3	≤ 0.3	≤ 0.3	≤ 0.4	≤ 0.5
Wavelength Dependent Loss (dB)	≤ 0.8	≤ 1.0	≤ 1.2	≤ 1.5	≤ 1.8	≤ 2.0	≤ 3.0
Return Loss (dB)	≥ 50						
Directivity (dB)	≥ 55						
Operating Temperature Range	- 40°C ~ + 80°C						

Note Parameters for Splitter with Connector. Insertion loss drops by 0.2dB if assessed without connector.

APPLICATIONS

- Premise data network cabling and installations
- Central office locations for telecom applications
- FTTX, FTTH, PON, LAN

FIBER OPTIC MINI PLC SPLITTER

Fiber Optic Systems • Seamless Connectivity

DIMENSIONS

Item	2 x 2	2 x 4	2 x 8	2 x 16	2 x 32	2 x 64
L x W x H (mm)	50 x 4 x 4	50 x 4 x 4	50 x 4 x 4	60 x 7 x 4	60 x 7 x 4	60 x 12 x 4

AVAILABLE CONNECTOR TYPES

- FC/APC
- LC/APC
- FC/UPC
- LC/UPC
- SC/APC
- SC/UPC
- ST

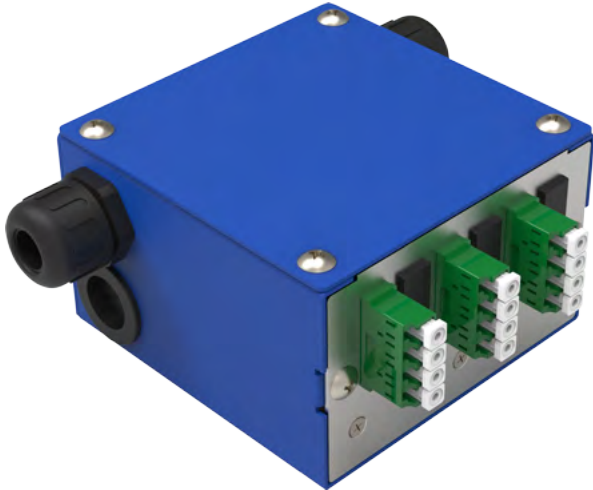
ORDERING INFORMATION

EFS202-M-FOS	Fiber Optic Mini PLC Splitter, 2 x 02	EFS204-M-FOS	Fiber Optic Mini PLC Splitter, 2 x 04
EFS208-M-FOS	Fiber Optic Mini PLC Splitter, 2 x 08	EFS216t-M-FOS	Fiber Optic Mini PLC Splitter, 2 x 16
EFS232-M-FOS	Fiber Optic Mini PLC Splitter, 2 x 32	EFS264-M-FOS	Fiber Optic Mini PLC Splitter, 2 x 64

DIN RAIL PATCH PANEL

Fiber Optic Systems • Seamless Connectivity

Product ID
EL1234D-DPP-G



ExTell DIN Patch Panel is a compact, easy to use solution that can be mounted on Din Rails for Network termination.

It has attachable latches to lock for secure fastening and the Faceplate is configurable for Fiber or Copper termination.

Features



Industrial Applications



DIN Rail Mountable

ADDITIONAL FEATURES

- Cold Rolled Steel sheet
- Loaded Patch Panels available with complete kit of tray, adaptors and pigtails
- Black Powder coated finish
- Built in Splice Holder to attach Splice tray

APPLICATIONS

- Perfect for applications with limited space
- Mountable on DIN Rail track
- Can be installed as standard wall mounting

DIMENSIONS (units in mm)

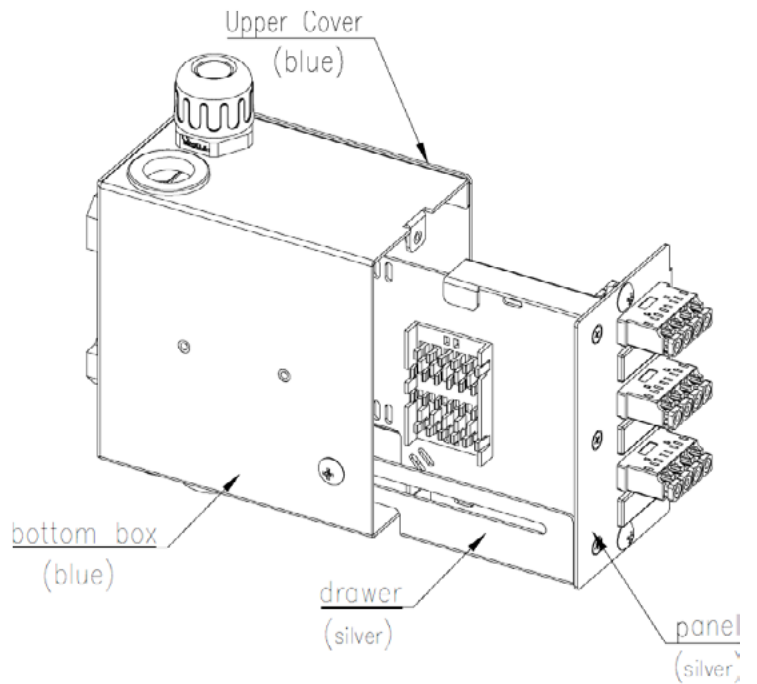
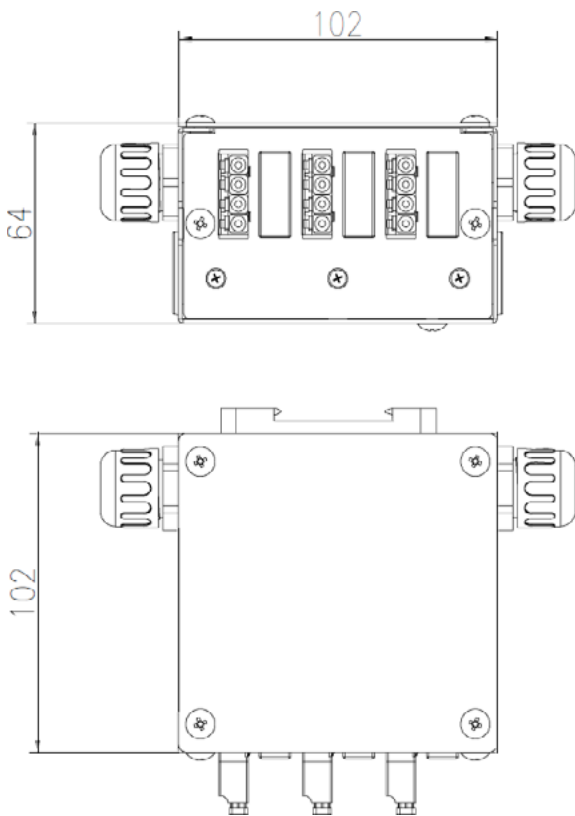
- 150 x 150 x 50

OPTIONAL

- Pigtails
- Adaptors

DIN RAIL PATCH PANEL

Fiber Optic Systems • Seamless Connectivity



CHARACTERISTICS

Operating Temperature	-40° to 75°C
Relative Humidity (Non Condensing)	10% to 95%
Insertion Loss	≤ 0.1dB (Multimode), ≤ 0.2dB (Singlemode)
Return Loss	≥ 45dB
Weight	0.6kg
Protection	IP20
Material	1.2mm Thickness SPCC Steel
FO Adaptors	Thermoplastic
Glands	Plastic

ORDERING INFORMATION

EL1234D-DPP-G	Fiber Optic, DIN Rail Patch Panel, 12 Port Loaded with Glands
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FIBER OPTIC PATCH PANEL

Fiber Optic Systems • Seamless Connectivity

Product ID
ELXX34D-FPP



ExTell FO Rack Mount Patch Panel is a perfectly finished Patch Panel that can be easily mounted on a rack Mount for all fiber termination applications. It has a built in splice holder with attached splice tray and has a powder coated surface finish and is available in all variances of 12C to 288C.

Features



Rack Mountable



Loaded

ADDITIONAL FEATURES

- Rack Mount 19" standard
- Versatile panel with extendable double sliding rails for smooth movement
- Electrostatic Powder Coated Surface finish
- Patch Cord bend radius guides minimise macro bending
- Full assembly (loaded) or empty panel
- Cold Rolled Steel sheet
- 2RU height Patch panel contains 4 X Adaptor Plates
- Accessory kit for cable entry and fiber management
- Stacked splice trays offer flexible fiber splicing capacity

APPLICATIONS

- Premise data network cabling and installations
- Termination of interconnect cables at entry or immediate cross connects
- Termination of horizontal cables, cross connection or backbone cables to jumper cables
- Central office locations for telecom applications
- Head-end location for CATV applications
- Suitable for fusion splicing, direct termination and pre-terminated cables

ORDERING INFORMATION

All combinations of Loaded Patch Panel available ranging from 12 Port to 288 Port with variety of Adaptors

PORT						ADAPTOR					TYPE	
12	24	48	96	144	288	SC	ST	LC	FC	MTRJ	Simplex	Duplex

EL2434D-FPP	24 Port LC Duplex, FO Patch Panel with Main body / Cable management / Adaptor	EL4834D-FPP	48 Port LC Duplex, FO Patch Panel with Main body / Cable management / Adaptor
EL7234D-FPP	72 Port LC Duplex, FO Patch Panel with Main body / Cable management / Adaptor	EL9634D-FPP	96 Port LC Duplex, FO Patch Panel with Main body / Cable management / Adaptor

FIBER OPTIC ADAPTORS

Fiber Optic Systems • Light • Compact • High Grade Plastic

Product ID
E2SMSP1-AD



High Quality Fiber Optic Adaptors with Polymer caps provided to protect against dust.

UPC and APC Adaptors available in multiple variants

Features



Low loss



Perfect connectivity



SC Type FO Adaptor



MTRJ Type FO Adaptor



LC Type FO Adaptor



ST Type FO Adaptor



FC Type FO Adaptor

ORDERING INFORMATION

E2SMSP1-AD	SC Adaptor, SM, Simplex, Plastic, Blue	E2SMDP1-AD	SC Adaptor, SM, Duplex, Plastic, Blue
E2MMSP7-AD	SC Adaptor, MM, Simplex, Plastic, Beige	E2MMDP7-AD	SC Adaptor, MM, Duplex, Plastic, Beige
E1SMSM-AD	ST Adaptor, SM, Simplex, Metallic case	E1MMSM-AD	ST Adaptor, MM, Simplex, Metallic case
E2SMSP1-AD	LC Adaptor, SM, Simplex, Plastic, Blue	E2SMDP1-AD	LC Adaptor, SM, Duplex, Plastic, Blue
E2MMSP7-AD	LC Adaptor, MM, Simplex, Plastic, Beige	E2MMDP7-AD	LC Adaptor, MM, Duplex, Plastic, Beige
E1SMSM-AD	MTRJ-MTRJ Adaptor, SM, Duplex, Plastic case	E1MMSM-AD	MTRJ-MTRJ Adaptor, MM, Duplex, Plastic case

WALL MOUNT FIBER OPTIC BREAKOUT BOX

Fiber Optic Systems • Seamless Connectivity

Product ID
EU2434D-FOB



ExTell Wall Mount FO Breakout Box is a perfectly finished fiber termination box in SPCC Metal that can be easily mounted on a wall for all fiber termination applications. It has a built in splice holder with attached splice tray and has a powder coated surface finish and is available in multiple variations.

Features



Low loss



Perfect connectivity

DIMENSIONS (units in mm)

- 320 x 250 x 80

OPTIONAL

- Pigtails
- Adaptors

ADDITIONAL FEATURES

- Cold Rolled Steel sheet
- Loaded Patch Panels available with complete kit of tray, adaptors and pigtails
- Black Powder coated finish
- Built in Splice Holder to attach Splice tray

APPLICATIONS

- Perfect for applications with limited space
- Breakout Box
- Can be installed as standard wall mounting

ORDERING INFORMATION

EU2434D-FOB	Wall Mount Fiber Optic Termination Breakout Box with Cable Management Kit / Adaptor
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ORDERING INFORMATION

EU0423D-BB	Wall mounted fiber optic breakout box 4 port SC type, Duplex without adaptor	EU0443D-BB	Wall mounted fiber optic breakout box 4 port LC type, Duplex without adaptor
EU0613S-BB	Wall mounted fiber optic breakout box 6 port ST type, Simplex without adaptor	EU0633S-BB	Wall mounted fiber optic breakout box 6 port FC type, Simplex without adaptor

DATA CENTER INFRASTRUCTURE

Solutions designed and manufactured to keep your IT Infrastructure **secure and safe through any conditions** - whether in an office setting or harsh outdoor environment



NETWORK SERVER CABINET 800KG SERIES 27U, 32U, 37U, 42U & 47U

Data Center Infrastructure

Product ID
EFCXX08D3G4

Material
RAL9004

Design
Perforated



Floor Mount Network Server Cabinets - High Build Quality. Quality IP20 Rated - Perfect for Network Installations with Front Glass/Perforated Door options.

Features Strong Floor Mount Non Hazardous



STANDARDS COMPLIANCE

- ANSI/EIA RS-310-D
- IEC 297-2
- DIN 41497 Part 1
- DIN41494 Part 7

CHARACTERISTICS

Load Capacity	Min 800kg and varying with sizes
Material	SPCC Cold Rolled Steel thickness mounting profile 1.5/1.2mm
Surface Finish	Frame : Degreasing, Phosphoric Powder Coat

BENEFITS

- Removable side panels for easy installation and maintenance
- Knockout space for entering cable on both top and bottom panels
- 180° front door turning angle
- Floor and wall mount Installations

ORDERING INFORMATION

Model	Part No.	Width (mm)	Depth (mm)	Height (mm)	Description
27U	EFC2708D3G4	800	800	27U	Glass front door with 4 way fan unit
32U	EFC3208D3G4	800	800	32U	Glass front door with 4 way fan unit
37U	EFC3708D3G4	800	800	37U	Glass front door with 4 way fan unit
42U	EFC4208D3G4	800	800	42U	Glass front door with 4 way fan unit
47U	EFC4708D3G4	800	800	47U	Glass front door with 4 way fan unit

NETWORK SERVER CABINET 1500KG SERIES 27U, 32U, 37U, 42U & 47U

Data Center Infrastructure

Product ID
EDXLXX15E3G4

Material
RAL9004

Design
Perforated



Floor Mount Network Server Cabinets - High Build Quality. Quality IP20 Rated - Perfect for Network Installations with Front Glass/Perforated Door options.

Features **Strong** Floor Mount Non Hazardous



Tempered Glass Door Lock - Advanced Lock



Split Vented Rear Door Lock - Moon Light Lock



Hexagonal Vented Door Lock - Moon Light Lock



Round Vented Door Lock - Advanced Lock



Round Vented Door Lock - Small Round Lock



Round Vented Arc Door Lock - Spring Lock



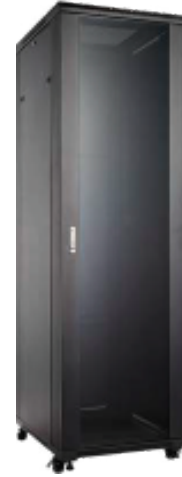
Hexagonal Vented Curved Door Lock - Spring Lock



Arc and Curved Door Lock - Spring Lock



Solid Iron Door Lock - Small Round Lock



Tempered Glass Door Lock - Advanced Lock



Tempered Glass Door, with Vented Holes Lock - Spring Lock



Tempered Glass Door, with Vented Strips Lock - Spring Lock

STANDARDS COMPLIANCE

- ANSI/EIA RS-310-D
- IEC 297-2
- DIN 41497 Part 1
- DIN41494 Part 7

NETWORK SERVER CABINET 1500KG SERIES 27U, 32U, 37U, 42U & 47U

Data Center Infrastructure

CHARACTERISTICS

Load Capacity	Min 1500kg and varying with sizes
Material	SPCC Cold Rolled Steel thickness mounting profile 1.5/1.2mm
Surface Finish	Frame : Degreasing, Phosphoric Powder Coat

BENEFITS

- Removable side panels for easy installation and maintenance
- Knockout space for entering cable on both top and bottom panels
- 180° front door turning angle
- Floor and wall mount Installations

ORDERING INFORMATION

Model	Part No.	Width (mm)	Depth (mm)	Height (mm)	Description
27U	EDXL2715E3G4	800	800	27U	Glass front door with 4 way fan unit
32U	EDXL3215E3G4	800	800	32U	Glass front door with 4 way fan unit
37U	EDXL3715E3G4	800	800	37U	Glass front door with 4 way fan unit
42U	EDXL4215E3G4	800	800	42U	Glass front door with 4 way fan unit
47U	EDXL4715E3G4	800	800	47U	Glass front door with 4 way fan unit

WALL MOUNTED SINGLE SECTION CABINET SERIES 4U, 6U, 9U, 12U, 15U, 18U & 22U

Data Center Infrastructure

Product ID
EWCXS06A3G

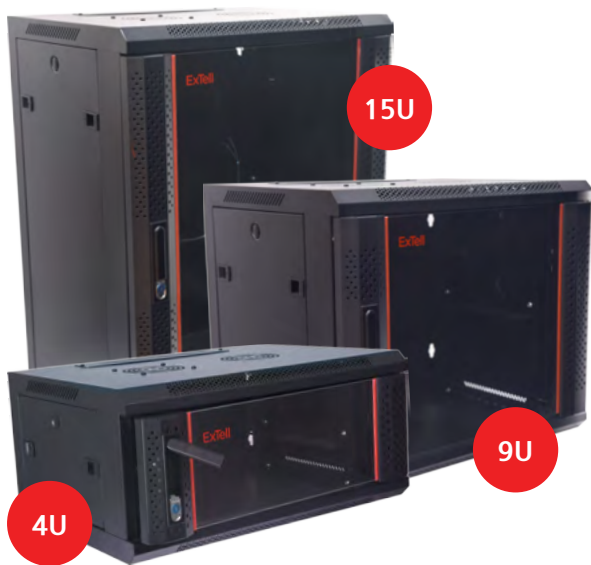
Material
RAL9004

Design
Perforated



Single Section Wall Mount cabinets - High Build Quality. IP20 Rated - Perfect for Network Installations with Front Glass Door.

Features **Strong** Floor Mount **Non Hazardous**



STANDARDS COMPLIANCE

- ANSI/EIA RS-310-D
- IEC 297-2
- DIN 41497 Part 1
- DIN41494 Part 7

CHARACTERISTICS

Load Capacity	Min 60kg and varying with sizes
Material	SPCC Cold Rolled Steel thickness mounting profile 1.5/1.2mm
Surface Finish	Frame : Degreasing, Phosphoric Powder Coat

BENEFITS

- Removable side panels for easy installation and maintenance
- 180° front door turning angle
- Knockout space for entering cable on both top and bottom panels
- Floor and wall mount Installations

ORDERING INFORMATION

Model	Part No.	Width (mm)	Depth (mm)	Height (mm)	Description
4U	EWC04S06A3G	600	450	-	Glass front door with 4 way fan unit
6U	EWC06S06A3G	600	450	368	Glass front door with 4 way fan unit
9U	EWC09S06A3G	600	450	501	Glass front door with 4 way fan unit
12U	EWC12S06A3G	600	450	635	Glass front door with 4 way fan unit
15U	EWC15S06A3G	600	450	769	Glass front door with 4 way fan unit
18U	EWC18S06A3G	600	450	901	Glass front door with 4 way fan unit
22U	EWC22S06A3G	600	450	1082	Glass front door with 4 way fan unit

WALL MOUNTED DUAL SECTION CABINET SERIES 4U, 6U, 9U, 12U, 15U, 18U & 22U

Data Center Infrastructure

Product ID
EWCXXD06C3G

Material
RAL9004

Design
Perforated



Dual Section cabinets for Easy Installation, Maintenance. IP20 Rated - Perfect for Network Installations with Front Glass Door.

Features **Strong** **Floor Mount** **Non Hazardous**



STANDARDS COMPLIANCE

- ANSI/EIA RS-310-D
- IEC 297-2
- GB/TB3047
- DIN 41497 Part 1
- DIN41494 Part 7
- 2-92 Standard

CHARACTERISTICS

Load Capacity	Min 60kg and varying with sizes
Material	SPCC Cold Rolled Steel thickness mounting profile 1.5/1.2mm
Surface Finish	Frame : Degreasing, Phosphoric Powder Coat

BENEFITS

- Double section welded frame, reliable structure
- Removable side panels for easy Installation and maintenance
- 180° front door turning angle
- 120mm fan
- Rear door with keys for easy operation and maintenance updates
- Knockout space for entering cable on both top and bottom panels
- > 90° Rear Door turning angle
- Floor and wall mount Installations

ORDERING INFORMATION

Model	Part No.	Width (mm)	Depth (mm)	Height (mm)	Description
4U	EWC04D06C3G	600	450 + 100	-	Glass front door with 4 way fan unit
6U	EWC06D06C3G	600	450 + 100	368	Glass front door with 4 way fan unit
9U	EWC09D06C3G	600	450 + 100	501	Glass front door with 4 way fan unit
12U	EWC12D06C3G	600	450 + 100	635	Glass front door with 4 way fan unit
15U	EWC15D06C3G	600	450 + 100	769	Glass front door with 4 way fan unit
18U	EWC18D06C3G	600	450 + 100	901	Glass front door with 4 way fan unit
22U	EWC22D06C3G	600	450 + 100	1082	Glass front door with 4 way fan unit

ONU WALL MOUNTED CABINET 6U, 9U, 12U & 18U

Data Center Infrastructure

Product ID
EON12S06H3-WC



Features Strong Wall Mount Flush Mount Non Hazardous



STANDARDS COMPLIANCE

- ANSI/EIA RS-310-D
- IEC 297-2
- DIN 41497 Part 1
- DIN41494 Part 7

CHARACTERISTICS

Material 1	IP20 Rated
Material 2	SPCC Cold Rolled Steel thickness mounting profile 1.5/1.2mm
Surface Finish	Frame : Degreasing, Phosphoric Powder Coat

BENEFITS

- Welded Frame
- Optional Unloaded Panels and Power Sockets
- Multiple Colors Available
- Ventilated Door
- Adjustable Mounting Rail

ORDERING INFORMATION

EON06S06H3-WC	ONU Cabinet Wall Mount 6U	EON09S06H3-WC	ONU Cabinet Wall Mount 9U
EON12S06H3-WC	ONU Cabinet Wall Mount 12U	EON18S06H3-WC	ONU Cabinet Wall Mount 18U

OUTDOOR CABINETS

OUTDOOR CABINET IP55, IP56, IP65 & IP66

Data Center Infrastructure

Product ID
E0383520A6-F



IP55 rated outdoor enclosures for Pole Mount Applications for Traffic and other outdoor Projects. Height, Width and Depth are customizable and additional features can be added.

Features **Strong** Floor Mount Non Hazardous



STANDARDS COMPLIANCE

- ANSI/EIA RS-310-D
- IEC 297-2
- DIN 41497 Part 1
- DIN41494 Part 7

OPTIONAL ACCESSORIES

- DIN Rail
- Fan, Air Conditioning
- Pole Mounting Bracket

APPLICATIONS

- Traffic System
- CCTV Applications

ORDERING INFORMATION

Model	Part No.	Width (mm)	Depth (mm)	Height (mm)	Description
IP55	E0383520A6-F	380	350	200	ExTell 380 x 350 x 200 IP55 Outdoor Enclosure with Fan



ExTell®

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www.extellsystems.com

ExTell reserves the right to make routine updates to Product Specifications and the changes are published on website.

Reach out to: support@extellsystems.com for Product clarifications.

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