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www.premiumline-cabling.com

Structured Cabling System

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2018/2019 V1

2018/2019

Contents

Copper Solution

Cabinets

Fiber Optic Solution

Copper Solutions

Fiber Solutions

High Performance for the Future

Premium Line
Your Professional Partner of Structured Cabling System

Premium-Line Systems GmbH is a part of a global manufacturing group with more than 20 years of experience on the field of networking market. Premium Line system is a comprehensive solution for the network infrastructure, mainly designed in Europe, with a complete product portfolio including classical and advanced copper solutions, outside plant and premises fiber optic solutions, datacenter server cabinets.

Since the beginning of the nineties we have been devoted to researching and developing the modern signal transmission cable and the joint hardware. Through almost twenty years of efforts, we succeeded in developing high performance tested network transmission products. It is a matter of course that our team of professional designers attends to all specific inquiries from our customers worldwide.

Category 6A+, Category 6A, Category 6 & 5e Premium Line Cabling System

delivers end-to-end solution for converged networks with high flexibility and proven interoperability to ensure smooth deployment and simplified management. Professional design and advanced leading processes supported by large manufacturing capacities evoke the products to be in great demand.

New products development and constant process improvement are two key approaches to maintain the company's competitiveness. All Premium Line cabling systems installed by an authorized Premium Line installer or by a System Center are backed by a 25-year warranty.

This warranty provides each end user the confidence of a future-proofed system. In time of high data transmissions and growing demand on bandwidth parameters a proofed networking infrastructure system becomes a must. With Premium Line you can afford this.

Integrated Strength of Manufacture & System Integrator
Premium Line owns over 20 years experience in developing and manufacturing of data cabling products; and also the experience of marketing and promoting under its own brand – "Premium Line". With this strength, also the complete range product series for data communication cabling use, these keeping us in the leading edge over worldwide market. Till today, we've successfully cooperated with our certified team accomplished over hundreds of projects over the world.

Quality & Service
Premium Line has dedicated teams responsible for internal quality monitoring and products systemic upgrading, and also responsible for customer quality & technical support and service maintenance.

All products are verified at the input of raw material and constantly monitored until the production process is finished. Based on the newest international standards plus our valid ISO-Certificate plus covering the physically basis "ROHS compliant" assurance, we are able to build up a complete quality & services policy and also the promise of best possible performance.

25 Years System Warranty Policy
All Premium Line supplied copper and optical cabling systems, which are installed and tested by an authorized Premium Line installer in accordance with Premium Line Cabling System installation manual, will be applied to 25 years warranty. Premium Line has a complete channel program for distributor authorization, installer courses, warranty publishing, marketing & technical service, worldwide strategy and information sharing. This is uniting our strength to activate our global sales expanding and all your prosperity in cabling business.

Our Advantages
◎ 25 Years System Warranty – Guarantee all data network system for 25 years which consists of Premium Line products
◎ Cabling training and Certificate course
◎ Dedicated R&D team for new products design
◎ Professional sales team for worldwide marketing guidance
◎ Plant based Product Management & logistic team for technique, quality and shipment support

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Access to High Speed Ethernet
Category 6A$^+$ Cabling Solutions

Premium Line
CATEGORY 6A$^+$ CABLING SOLUTIONS

Installation Cable
Category 7/6A$^+$ S/FTP 1000MHz

Patch Cord
Category 6A$^+$ S/FTP Patch Cord Component Level Type

Keystone Jack
Category 6A$^+$ 180° Shielded Die-casting Keystone Jack，De-embedded Type

Modular Patch Panel
High Density Unloaded Patch Panel

10G Standard
2006, standard IEEE 802.3an is ratified to provide 10 Gbit/s connections over unshielded or shielded twisted pair cables, and specified transmission characteristics up to 500MHz.

This requires Category 6A or better balanced twisted pair cables comply with ISO 11801 amendment 2 or ANSI/TIA-568-C.2 to support 10GBASE-T up to distances of 100m.

So far, 10G BASE-T Ethernet is the fastest LAN connection path over copper communication solutions.

10G Bandwidth
10G BASE-T system requires the cable works as full duplex mode, which means use 4 pairs for simultaneous transmission in both directions, and to support 100m data transmission, it must use Category 6A 500MHz at a minimum.

Premium Line Category 6A$^+$ 1000MHz communication cable, with the significant higher bandwidth to provide bigger quantity of "data path"，definitely guarantees you stable and excellent practical 10G network and capable to support higher speed application.

For the future building data network upgrade, Premium Line 1000MHz cable is special design to assure the bandwidth to be compatible with the faster and faster network change and development. And it will be also make the system upgrade project easy and comfortable as only need to change the module of both side for the permanent links.

"MADE IN GERMANY" Solution
As Europe now is leading edge of 10G shielded solutions, Premium Line Systems GmbH combine strength of own experienced R&D team and special know-how market wise to provide a *MADE IN GERMANY* Category 6A$^+$ shielded solution. High quality assurance as always the German quality products perform!
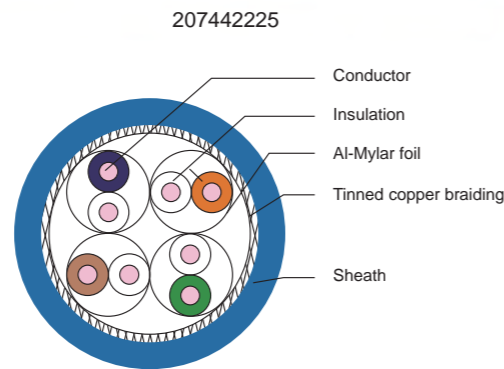
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Installation Cable
Category 7/6A+ S/FTP 1000MHz

Standards:
- ISO/IEC 2nd Edition Amendment 1.2
- CENELEC EN 50288-4-1
- ISO/IEC 61156-5 2nd Edition
- ANSI/TIA-568-C.2
- IEC 60332-1-2
- IEC 60754-2
- 3P Verified
- RoHS Compliant

Application:
- 10G BASE-T Ethernet
- 1000BASE-TX (Gigabit Ethernet)
- 1000BASE-T (Gigabit Ethernet)
- 100BASE-TX Fast Ethernet
- 10BASE-T Ethernet
- Voice

207442225

Conductor
Insulation
Al-Mylar foil
Tinned copper braiding
Sheath

Construction

Conductor	Material / size	Bare Copper / 23 AWG
Insulation	Material	Foam-Skin PE
Inner-Shield	Aluminum-Mylar	An aluminum foil Screen Around Each Pair
Braid	Material	Tinned Copper
Sheath	Material	LSOH
	Diameter	7.4 ± 0.3 mm

Mechanical & Environmental Characteristics

Bending Radius	≥ 6D, without load
	≥8D, with load
Operation Temperature	-20°C~+60°C
Installation Temperature	0°C~+50°C
Storage Temperature	-30°C~+60°C

Electrical Performance

Frequency	Insertion Loss		NEXT		PSNEXT		ACR-F		PSACR-F		Return Loss		ACR	PSACR
(MHz)	(dB)		(dB)		(dB)		(dB)		(dB)		(dB)		(dB)	(dB)
	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Typ.	Typ.
1	1.9	1.7	78.0	100.0	75.0	97.0	77.0	90.0	75.0	87.0	20.0	30.0	98.3	95.3
4	3.5	3.4	78.0	100.0	75.0	97.0	77.0	90.0	75.0	87.0	23.0	33.0	96.6	93.6
10	5.4	5.0	78.0	100.0	75.0	97.0	74.0	90.0	71.0	87.0	25.0	35.0	95.0	92.0
16	6.8	6.4	78.0	100.0	75.0	97.0	70.0	90.0	67.0	87.0	25.0	35.0	93.6	90.6
20	7.6	7.1	78.0	100.0	75.0	97.0	68.0	90.0	65.0	87.0	25.0	35.0	92.9	89.9
31.25	9.6	9.0	78.0	100.0	75.0	97.0	64.0	90.0	61.0	87.0	23.6	33.6	91.0	88.0
62.5	13.7	13.0	78.0	100.0	75.0	97.0	58.0	85.0	55.0	82.0	21.5	31.5	87.0	84.0
100	17.5	16.8	76.0	98.0	73.0	95.0	54.0	81.0	51.0	78.0	20.1	30.1	81.2	78.2
200	25.3	23.9	71.0	93.0	68.0	90.0	48.0	77.0	45.0	74.0	18.0	28.0	69.1	66.1
250	28.5	28.5	70.0	92.1	67.0	89.1	46.0	76.0	43.0	73.0	17.3	27.3	63.6	60.6
300	31.5	29.2	69.0	91.0	66.0	88.0	44.0	71.0	41.0	68.0	17.3	27.3	61.8	58.8
350	34.3	33.4	68.0	89.1	65.0	86.1	43.0	68.1	40.0	65.1	17.3	27.3	55.7	52.7
400	36.9	37.2	67.0	87.3	64.0	84.3	42.0	66.2	39.0	63.1	17.3	27.3	50.1	47.1
550	44.1	42.5	65.0	86.1	62.0	83.1	39.0	60.0	36.0	57.0	17.3	27.3	43.6	40.6
600	46.3	48.2	64.0	83.1	61.0	80.1	38.0	52.1	35.0	49.1	17.3	27.3	37.4	34.0
800	54.5	53.8	62.0	82.0	59.0	79.0	36.0	48.0	33.0	45.0	16.1	25.0	29.8	27.1
1000	62.0	57.5	61.0	81.0	58.0	78.0	34.0	46.0	31.0	43.0	15.1	24.0	23.5	20.5

Category 7/6A+ S/FTP 1000MHz Installation Cable

PART NO.	DESCRIPTION	PACKING SIZE
207442225	Premium Line Category 7/6A+ S/FTP Installation Cable, 500m reel, LSOH, 1000 MHz	45(O.D)×29.8(H) cm

Patch Cord
Category 6A+ S/FTP Patch Cord Component Level Type

Premium Line Category 6A+ S/FTP patch cord component level type supports whole link achieves Class EA 500MHz 10G channel applications, as per standard ANSI/TIA 568-C.2, ISO/IEC 11801 Class EA, EN 50173-1, EN 50288-4-2, IEC 61935-2, IEC 61156-6. The cable realize high performance, could pass Fluke ISO 11801 Cat.6A Patch Cord test up to 20m.

Conductor
Insulation
Al-Mylar foil
Tinned copper braiding
Drain Wire(Optional)
Sheath

Construction

Conductor	Material / size	Bare Copper / 26 AWG
Insulation	Material	Foam-Skin PE
Inner-Shield	Aluminum-Mylar	An Aluminum Foil Screen Around Each Pair
Braid	Material	Tinned Copper
Sheath	Material	PVC / LS0H
	Diameter	5.7± 0.3 mm

Category 6A+ S/FTP Patch Cord Component Level Type, LSOH

Length	Grey	Green	Blue	Red	Yellow
0,5 m	189420055	189420056	189420054	189420053	189420058
1 m	189420105	189420106	189420104	189420103	189420108
2 m	189420205	189420206	189420204	189420203	189420208
3 m	189420305	189420306	189420304	189420303	189420308
5 m	189420505	189420506	189420504	189420503	189420508
7 m	189420705	189420706	189420704	189420703	189420708
10 m	189421005	189421006	189421004	189421003	189421008

Other lengths, colors or PVC cables on request
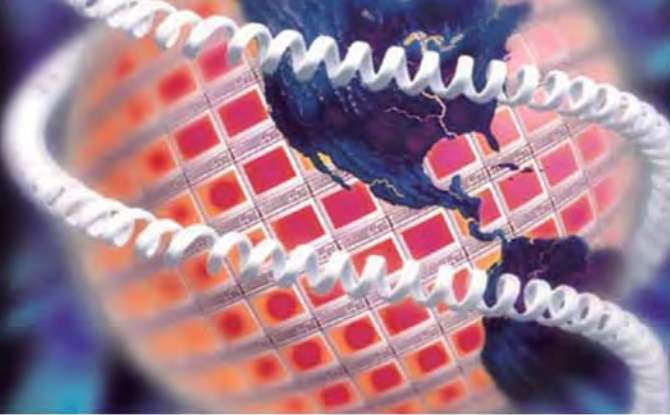
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Keystone Jack
Category 6A+ 180° Shielded Die-casting Keystone Jack，De-embedded Type

To fully support Class EA link for 10G applications, Premium Line Category 6A+ shielded keystone jack achieves de-embedded performance definition according to ISO/IEC 11801:2011(Edition2.2). The module is in toolless design for quick operation and also upgrades its construction for easy-install. And T568A&B wiring methods are both available.

◎ Real ISO/IEC 11801 compliant module
◎ All condition excellent performance to support your LAN access
◎ Easy and quick installation, reliable contact & connectivity
◎ Standard RJ45 socket with springs for loop grounding noise transferring
◎ Nickel plated over zinc alloy fully shield housing, reliable mechanical structure
◎ Finish product in compact design, standard size fits with worldwide style outlets
◎ Compatible with Premium Line distinct modular patch panel for datacenter or cross connect use

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 zinc alloy

Electrical Characteristics

Dielectric Strength	1000V RMS for 1min
Current Rating	1.5Amp Max.
Insulation Resistance	10MΩ Min.
Contact Resistance	2mΩ per contact
Temperature Range	-10°C to 60°C
Humidity	10%~90%; non condensing

Applications

◎ 10GBASE-T Ethernet
◎ 1000BASE-Tx Gigabit Ethernet
◎ 1000BASE-T Gigabit Ethernet
◎ 100BASE-Tx Fast Ethernet.
◎ 10BASE-T Ethernet.
◎ Voice, Video and other applications.

108524010

Modular Patch Panel
High Density Unloaded Patch Panel

Premium Line 19" high density unloaded patch panel, 24 port in 0.5U&1U and 48 ports in 1U Size, could significantly expand your capacity by space saving in the rack!
Premium Line high density unloaded patch panel is in dedicated design to adopt Premium Line 180 ° shielded die-casting keystone jack, to meet different place use intentions. Each port has se-quence numbering, and above markable position, is right for future port identification or re-man-agement. Main body and back cable management made by single complete steel plate, suits for all standard 19" rack installation.

170244802

170242402

170282402

High Density Unloaded Patch Panel

PART NO.	DESCRIPTION	Size
170244802	Premium Line High Density Shielded 48Port Unloaded Patch Panel for 180 ° shielded die-casting keystone jack (P/N 108524010, 109824010) , 1U, with Cable Management	50.5×27.9×27 cm
170242402	Premium Line High Density Shielded 24Port Unloaded Patch Panel for 180 ° shielded die-casting keystone jack (P/N 108524010, 109824010,109524010, 106524010, 105524010), 1U, with Cable Management	50.5×27.9×27 cm
170282402	Premium Line High Density Shielded 24Port Unloaded Patch Panel for 180 ° shielded die-casting keystone jack (P/N 108524010, 109824010) , 0.5U, with Cable Management Bar	50.5×27.9×27 cm

Category 6A+ 180° Shielded Die-casting Keystone Jack, De-embedded Type

PART NO.	DESCRIPTION	PACKING SIZE
108524010	Premium Line Category 6A+ 180° Shielded Die-casting Keystone Jack, De-embedded Type	53.8×35.2×27cm

CATEGORY 6A CABLING SOLUTIONS

10 Gigabit Ethernet is nowadays viable solution for destinations with very high data traffic concentration like data center, server farms, MAN's and backbones.

Need of 10 Gigabit Service

Application as high resolution digital videos, medical imaging, digital animation, CAD/CAM, high speed data storage also require the quality of service (QoS) inherent in 10 Gigabit Ethernet. IP-based services such as VoIP and video will require extended bandwidth. Greater bandwidth is also required as voice, data and video networks are coming into structured cabling systems, as is the case already for today's more advanced security systems.

Standard of 10 Gigabit

In 2002 the IEEE ratified already a 10 Gigabit Ethernet standard for a full duplex fiber technology. Considering the world wide market need, the technology's potential and the economies offered by copper cabling system, both IEEE and TIA/EIA have now in summer 2006 ratified the new standard IEEE 802.3an TM Category 6A.

Demand of 10 Gigabit Systems

As from the experience of the past at that time 100 Mb/s and later on 1 Gb/s were as standards ratified we expect a potential for 10G structured cabling systems in the mass market. Bandwidth will be for many applications in the near future the key issue, so it will be important to invest future proofed in 10G-enable twisted pair structured cabling solutions.

Premium Line 10G Category 6A cabling solution provides transmission performance that exceeds the industry standards for Category 6 parameters and supports the operation of 10GBASE-T over 100-meter. 10G Category 6A cabling solutions are qualified for frequencies up to 500 MHz and deliver guaranteed applications.

Features

1. Performance conforms to TIA/EIA 568-C.2, ISO/IEC 11801:2002 Ed2.0 & Amendment 1 draft, TIA-TSB-155 draft and EN 50173-1, IEEE 802.3an™ Category 6A specifications.
2. Supports T568 A&B Wiring & Easy installation.
3. Offers total solution of 10G Category 6A Network Cabling System.

Application

• 10GBASE-T Ethernet • 1000BASE-TX Gigabit Ethernet • ATM CB1G • 1000BASE-T Gigabit Ethernet

• 100BASE-TX Fast Ethernet • 10BASE-TX Ethernet • 155/622 Mbps ATM • 100 Mbps TP-PMD

Installation cable
Category 6A S/FTP 600MHz

Category 6A U/FTP 600MHz

Category 6A U/UTP 500MHz

Patch Panel
Category 6A 1U Shielded Patch Panel

Category 6A 0.5U Shielded Patch Panel

Modular Patch Panel
Cat.6A 180 ° Unshielded Patch Panel

1U 24port Angled Modular Patch Panel

Shielded Keystone Jack
Category 6A 180° shielded Die-casting Keystone Jack, Slim Type

Unshielded Keystone Jack
Category 6A 180° Unshielded Toolless Keystone Jack, Slim Type

Category 6A 180° Unshielded Keystone Jack

Patch Cord
Category 6A S/FTP Patch Cord

Category 6A U/FTP Patch Cord

Category 6A U/UTP Patch Cord

Flexible Consolidation Point Cable
Class E_A 10G CP Cable

Toolless RJ45 Plug
Category 6A Shielded Toolless RJ45 Plug

Industrial Face Plate
Industrial Face Plate, W/ Shielded Keystone Jack

Industrial Patch Cord
Category 6A S/FTP Industrial Patch Cord

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Installation Cable
Category 6A S/FTP 600MHz

PREMIUM LINE CAT.6A S/FTP

209442225

Standards:
- ISO/IEC 2nd Edition Amendment 1.2
- CENELEC EN 50288-4-1
- IEC 61156-5 2nd Edition
- ANSI/TIA-568-C.2
- IEC 60332-1-2
- IEC 60754-2
- RoHS compliant

Application:
- 10G BASE-T Ethernet
- 1000BASE-TX (Gigabit Ethernet)
- 1000BASE-T (Gigabit Ethernet)
- 100BASE-TX Fast Ethernet
- 10BASE-T Ethernet
- Voice

Conductor
Insulation
Al-Mylar foil
TCCA braiding
Sheath
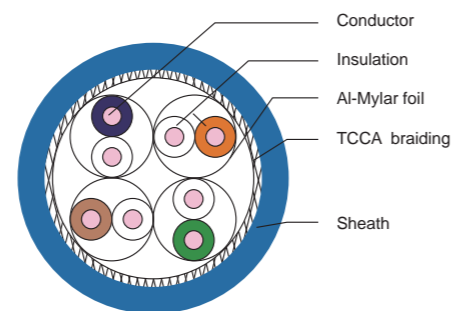
Construction

Conductor	Material / size	Bare Copper / 23 AWG
Insulation	Material	Foam-Skin PE
Inner-Shield	Aluminum-Mylar	An aluminum foil Screen Around Each Pair
Braid	Material	Tinned Copper Covered Aluminum
Sheath	Material	LSOH
	Diameter	7.4± 0.3 mm

Mechanical & Environmental Characteristics

Bending Radius	≥ 6D, without load
	≥ 8D, with load
Operation Temperature	-20°C~+60°C
Installation Temperature	0°C~+50°C
Storage Temperature	-30°C~+60°C

Electrical Performance

Freq	Insertion Loss		NEXT		PS NEXT		ACR-F		PS ACR-F		Return Loss	
(MHz)	(dB)		(dB/100m)		(dB)		(dB)		(dB)		(dB)	
	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.
1.0	2.1	1.7	74.3	100.0	72.3	97.0	67.8	90.0	64.8	87.0	20.0	30.0
4.0	3.8	3.4	65.3	100.0	63.3	97.0	55.8	90.0	52.8	87.0	23.0	33.0
10.0	5.9	5.0	59.3	100.0	57.3	97.0	47.8	90.0	44.8	87.0	25.0	35.0
16.0	7.5	6.4	56.2	100.0	54.2	97.0	43.7	90.0	40.7	87.0	25.0	35.0
20.0	8.4	7.1	54.8	100.0	52.8	97.0	41.8	90.0	38.8	87.0	25.0	35.0
31.25	10.5	9.0	51.9	100.0	49.9	97.0	37.9	90.0	34.9	87.0	23.6	33.6
62.5	15.0	13.0	47.4	100.0	45.4	97.0	31.9	85.0	28.9	82.0	21.5	31.5
100.0	19.1	16.8	44.3	98.0	42.3	95.0	27.8	81.0	24.8	78.0	20.1	30.1
200.0	27.6	23.9	39.8	93.0	37.8	90.0	21.8	77.0	18.8	74.0	18.0	28.0
250.0	31.1	28.5	38.3	92.1	36.3	89.1	19.8	76.0	16.8	73.0	17.3	27.3
300.0	34.3	29.2	37.1	91.0	35.1	88.0	18.3	71.0	15.3	68.0	16.8	27.3
400.0	40.1	33.4	35.3	89.1	33.3	86.1	15.8	68.1	12.8	65.1	15.9	27.3
550.0	47.6	37.2	33.2	87.3	31.2	84.3	13.0	33.2	10.0	63.1	14.9	27.3
600.0	50.0	42.5	32.7	86.1	30.7	83.1	12.3	60.0	9.3	57.0	14.6	27.3

Category 6A S/FTP Installation Cable

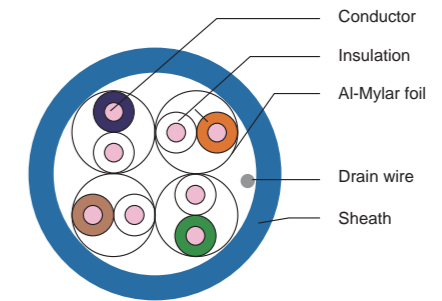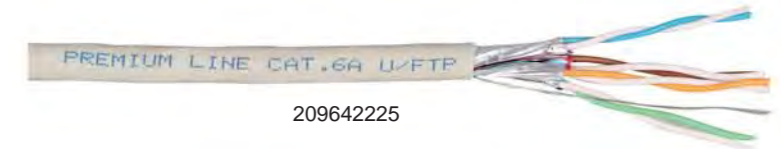| PART NO.	DESCRIPTION	PACKING SIZE
209442225	Premium Line Category 6A S/FTP installation cable,500m reel, LSOH, 600MHz	45(O.D)×29.8(H) cm

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Installation Cable
Category 6A U/FTP 600MHz

PREMIUM LINE CAT.6A U/FTP

209642225

Standards:
- ISO/IEC 11801 CLASS EA
- CENELEC EN 50288-10-1
- IEC 61156-5 2nd Edition
- ANSI/TIA 568-C.2
- IEC 60332-1-2
- IEC 60754-2
- ETL Verified
- RoHS compliant

Application:
- 10G BASE-T Ethernet
- 1000BASE-TX (Gigabit Ethernet)
- 1000BASE-T (Gigabit Ethernet)
- 100BASE-TX Fast Ethernet
- 10BASE-T Ethernet
- Voice

Conductor
Insulation
Al-Mylar foil
Drain wire
Sheath

Construction

Conductor	Material / size	Bare Copper / 23 AWG
Insulation	Material	Foam-Skin PE
Inner-Shield	Aluminum-Mylar	An Aluminum Foil Screen Around Each Pair
Sheath	Material	PVC / LSOH
	Diameter	7.4 ± 0.3 mm

Mechanical & Environmental Characteristics

Bending Radius	≥ 6D, without load
	≥ 8D, with load
Operation Temperature	-20°C~+60°C
Installation Temperature	0°C~+50°C
Storage Temperature	-30°C~+60°C

Electrical Performance

Freq	Insertion Loss		NEXT		PS NEXT		ACR-F		PS ACR-F		Return Loss	
(MHz)	(dB)		(dB/100m)		(dB)		(dB)		(dB)		(dB)	
	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.
1.0	2.1	1.7	74.3	100.0	72.3	97.0	67.8	90.0	64.8	87.0	20.0	30.0
4.0	3.8	3.4	65.3	100.0	63.3	97.0	55.8	90.0	52.8	87.0	23.0	33.0
10.0	5.9	5.0	59.3	100.0	57.3	97.0	47.8	90.0	44.8	87.0	25.0	35.0
16.0	7.5	6.4	56.2	100.0	54.2	97.0	43.7	90.0	40.7	87.0	25.0	35.0
20.0	8.4	7.1	54.8	100.0	52.8	97.0	41.8	90.0	38.8	87.0	25.0	35.0
31.25	10.5	9.0	51.9	100.0	49.9	97.0	37.9	90.0	34.9	87.0	23.6	33.6
62.5	15.0	13.0	47.4	100.0	45.4	97.0	31.9	85.0	28.9	82.0	21.5	31.5
100.0	19.1	16.8	44.3	98.0	42.3	95.0	27.8	81.0	24.8	78.0	20.1	30.1
200.0	27.6	23.9	39.8	93.0	37.8	90.0	21.8	77.0	18.8	74.0	18.0	28.0
250.0	31.1	28.5	38.3	92.1	36.3	89.1	19.8	76.0	16.8	73.0	17.3	27.3
300.0	34.3	29.2	37.1	91.0	35.1	88.0	18.3	71.0	15.3	68.0	16.8	27.3
400.0	40.1	33.4	35.3	89.1	33.3	86.1	15.8	68.1	12.8	65.1	15.9	27.3
550.0	47.6	37.2	33.2	87.3	31.2	84.3	13.0	33.2	10.0	63.1	14.9	27.3
600.0	50.0	42.5	32.7	86.1	30.7	83.1	12.3	60.0	9.3	57.0	14.6	27.3

Category 6A U/FTP Installation Cable

PART NO.	DESCRIPTION	PACKING SIZE
209642225	Premium Line Category 6A U/FTP Installation Cable, 500 m reel, LSOH,600 MHz	45(O.D)×29.8(H) cm

CATEGORY 6A CABLING SOLUTIONS

Installation Cable
Category 6A U/UTP 500MHz

Standards:

ANSI/TIA-568-C.2
- ISO/IEC 2nd Edition Amendment 1.2
- CENELEC EN 50288-10-1
- IEC 61156-5 2nd Edition
- ETL Verified
- RoHS compliant

Application:
- 10G BASE-T Ethernet
- 1000BASE-TX (Gigabit Ethernet)
- 1000BASE-T (Gigabit Ethernet)
- 100BASE-TX Fast Ethernet
- 10BASE-T Ethernet
- Voice

209141225

Construction

Conductor	Material / size	Bare Copper / 23 AWG
Insulation	Material	HDPE
"+" Cross-Member	Material	PE
Sheath	Material	PVC/LSOH
	Diameter	7.5± 0.3 mm

Mechanical & Environmental Characteristics

Bending Radius	≥ 6D, without load
	≥ 8D, with load
Operation Temperature	-20°C~+60°C
Installation Temperature	0°C~+50°C
Storage Temperature	-30°C~+60°C

Electrical Performance

Freq	Insertion Loss		NEXT		PS NEXT		ACR-F		PS ACR-F		Return Loss	
(MHz)	(dB)		(dB/100m)		(dB)		(dB)		(dB)		(dB)	
	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.
1.0	2.1	1.7	74.3	102.0	72.3	100.0	67.8	99.8	64.8	91.5	20.0	26.5
4.0	3.8	3.3	65.3	95.0	63.3	94.2	55.7	94.0	52.7	80.7	23.0	36.0
10.0	5.9	5.3	59.3	93.0	57.3	92.9	47.8	87.8	44.8	72.6	25.0	43.0
16.0	7.5	6.8	56.2	90.0	54.2	90.5	43.7	79.8	40.7	68.4	25.0	49.0
20.0	8.4	7.6	54.8	87.0	52.8	87.1	41.7	76.9	38.7	66.4	25.0	52.0
31.25	10.5	9.5	51.9	84.0	49.9	84.5	37.9	73.1	34.9	62.9	23.6	48.0
62.5	15.0	13.7	47.4	82.0	45.4	82.3	31.8	68.3	28.8	56.3	21.5	48.0
100.0	19.1	17.5	44.3	77.0	42.3	77.9	27.8	63.1	24.8	51.8	20.1	45.0
200.0	27.6	25.1	39.8	74.0	37.8	74.2	21.7	50.3	18.7	46.9	18.0	43.0
250.0	31.1	28.1	38.3	72.0	36.3	72.3	19.8	50.7	16.8	44.2	17.3	37.0
300.0	34.3	30.9	37.1	70.0	35.1	69.3	18.2	49.2	15.2	42.1	16.8	34.0
400.0	40.1	36.1	35.3	68.0	33.3	68.1	15.7	44.2	12.7	41.3	15.9	34.0
500.0	45.3	40.5	33.8	66.0	31.8	65.9	13.8	41.3	10.8	39.5	15.2	34.0

Category 6A U/UTP Installation Cable

PART NO.	DESCRIPTION	PACKING SIZE
209141225	Premium Line Category 6A U/UTP Installation Cable, 500 m reel, PVC, 500 MHz	50(O.D)×34(H) cm
209142225	Premium Line Category 6A U/UTP Installation Cable, 500 m reel, LSOH, 500 MHz	50(O.D)×34(H) cm

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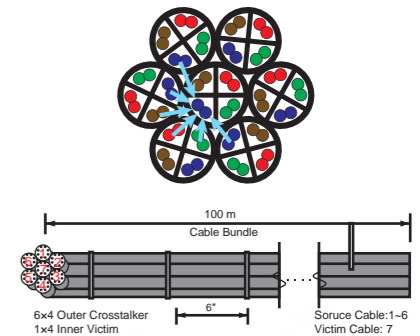
www.premiumline-cabling.com

ETL Certified 6 Round 1 Alien Near End Crosstalk Compliant Cable

During full network operation, all wire pairs in a cabling bundle simultaneously transmit in full duplex. Therefore, every single wire pair will be affected by transmissions on numerous wire pairs surrounding it in a cabling bundle or pathway.

AxTalk is a challenge for twisted-pair cabling as it is the most significant disturbance or noise source for the 10 Gb E applications. Premium Line Category 6A 6 round 1 cable is right design to fulfill this requirement.
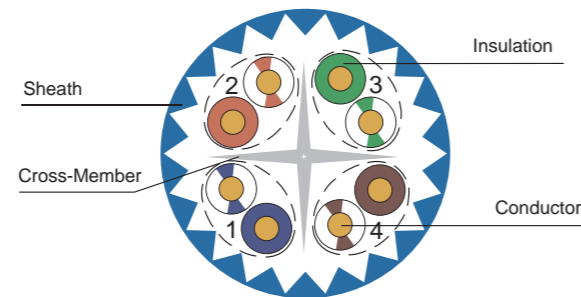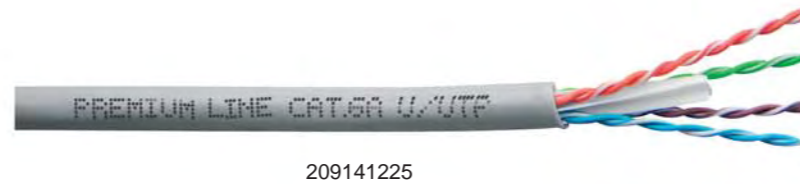

100 m
Cable Bundle

6×4 Outer Crosstalker
1×4 Inner Victim
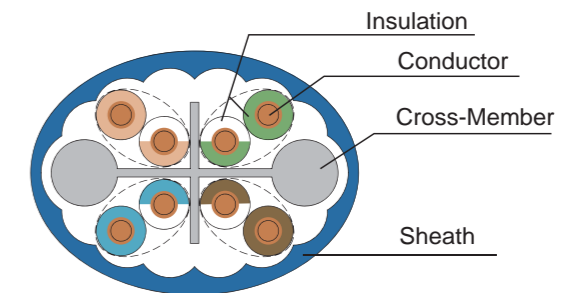
6"

Souce Cable:1~6
Victim Cable: 7

Installation Cable
Category 6A U/UTP 500MHz

Standards:
- ANSI/TIA-568-C.2
- ISO/IEC 2nd Edition Amendment 1.2
- CENELEC EN 50288-10-1
- IEC 61156-5 2nd Edition
- ETL Verified
- RoHS compliant

Application:
- 10G BASE-T Ethernet
- 1000BASE-TX (Gigabit Ethernet)
- 1000BASE-T (Gigabit Ethernet)
- 100BASE-TX Fast Ethernet
- 10BASE-T Ethernet
- Voice

209941225

Construction

Conductor	Material / size	Bare Copper / 23 AWG
Insulation	Material	HDPE
"+" Cross-Member	Material	PE
Sheath	Material	PVC/LSOH
	Diameter	10.5×7.0 mm

Mechanical & Environmental Characteristics

Bending Radius	≥ 6D, without load
	≥ 8D, with load
Operation Temperature	-20°C~+60°C
Installation Temperature	0°C~+50°C
Storage Temperature	-30°C~+60°C

Electrical Performance

Freq	Insertion Loss		NEXT		PS NEXT		PSA NEXT		ACR-F		PS ACR-F		PSA ACR-F		Return Loss	
(MHz)	(dB)		(dB/100m)		(dB)		(dB)		(dB)		(dB)		(dB)		(dB)	
	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.
1.0	2.1	1.7	74.3	102.0	72.3	100.0	67.0	92.7	67.8	99.8	64.8	91.5	67.0	90.9	20.0	26.5
4.0	3.8	3.3	65.3	95.0	63.3	94.2	67.0	95.3	55.7	94.0	52.7	80.7	66.2	93.9	23.0	36.0
10.0	5.9	5.3	59.3	93.0	57.3	92.9	67.0	99.7	47.8	87.8	44.8	72.6	58.2	86.6	25.0	43.0
16.0	7.5	6.8	56.2	90.0	54.2	90.5	67.0	100.1	43.7	79.8	40.7	68.4	54.1	80.5	25.0	49.0
20.0	8.4	7.6	54.8	87.0	52.8	87.1	67.0	98.3	41.7	76.9	38.7	66.4	52.2	78.2	25.0	52.0
31.25	10.5	9.5	51.9	84.0	49.9	84.5	67.0	97.3	37.9	73.1	34.9	62.9	48.3	74.4	23.6	48.0
62.5	15.0	13.7	47.4	82.0	45.4	82.3	65.6	99.4	31.8	68.3	28.8	56.3	42.3	68.8	21.5	48.0
100.0	19.1	17.5	44.3	77.0	42.3	77.9	62.5	94.7	27.8	63.1	24.8	51.8	38.2	63.9	20.1	45.0
200.0	27.6	25.1	39.8	74.0	37.8	74.2	58.0	91.3	21.7	50.3	18.7	46.9	32.2	55.1	18.0	43.0
250.0	31.1	28.1	38.3	72.0	36.3	72.3	56.5	89.4	19.8	50.7	16.8	44.2	30.2	53.9	17.3	37.0
300.0	34.3	30.9	37.1	70.0	35.1	69.3	55.3	56.9	18.2	49.2	15.2	42.1	28.7	52.2	16.8	34.0
400.0	40.1	36.1	35.3	68.0	33.3	68.1	53.5	85.3	15.7	44.2	12.7	41.3	26.2	49.3	15.9	34.0
500.0	45.3	40.5	33.8	66.0	31.8	65.9	52.0	83.2	13.8	41.3	10.8	39.5	24.2	46.8	15.2	34.0

Category 6A U/UTP Installation Cable

PART NO.	DESCRIPTION	PACKING SIZE
209941225	Premium Line Category 6A U/UTP Installation Cable, 500 m reel, PVC, 500 MHz	45(O.D)×29.8(H) cm
209942225	Premium Line Category 6A U/UTP Installation Cable, 500 m reel, LSOH, 500 MHz	45(O.D)×29.8(H) cm

Patch Panel
Category 6A 1U Shielded Patch Panel

Premium Line Category 6A shielded patch panel fully shielded design optimizes shield effectiveness protection from EMI and alien crosstalk. It comply with ANSI/TIA-568-C.2, EN 50173-1 and ISO/IEC 11801 Class Ea specifications, supports T568 A&B wiring and easy installation.
The complete module complies with EU RoHS directive. The construction in standard 1U 19" size suits all 19" rack installation. The main metal frame and rear back cover are made of SECC material, with the thickness over 1.0mm.

Physical Characteristics

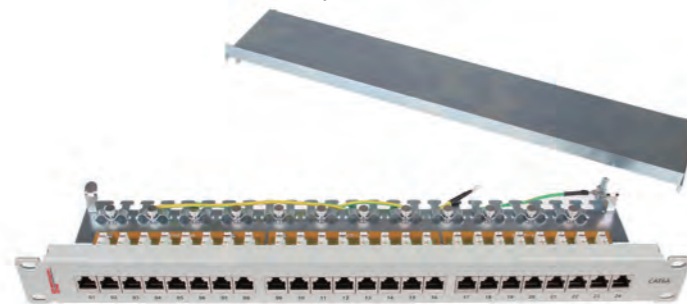|	
Jack	Phosphor bronze, 50μ inch gold plating over nickel in contact area
IDC	100μ inch nickel plated over phosphor bronze
Shielded Cover	50~60μ inch nickel plated over zinc alloy

Electrical Characteristics

Dielectric Strength	1000V RMS for 1min
Current Rating	1.5Amp Max.
Insulation Resistance	10MΩ Min.
Contact Resistance	2mΩ per contact
Temperature Range	-10°C to 60°C
Humidity	10%~90%; non condensing

Applications

- 10GBASE-T Ethernet
- 1000BASE-Tx Gigabit Ethernet
- 1000BASE-T Gigabit Ethernet
- 100BASE-Tx Fast Ethernet.
- 10BASE-T Ethernet.
- Voice, Video and other applications.

All the products are verified to the electrical characteristics required in the directive.

179212419

Category 6A 1U Shielded Patch Panel

PART NO.	DESCRIPTION	PACKING SIZE
179212412	Premium Line Cat.6A 90° 1U Shielded Patch Panel, Dual Type IDC, 24 Ports, Black	50.5×27.9×27 cm
179212419	Premium Line Cat.6A 90° 1U Shielded Patch Panel, Dual Type IDC, 24 Ports, RAL7035	50.5×27.9×27 cm

Patch Panel
Category 6A 0.5U Shielded Patch Panel

Premium Line Category 6A 0.5U shielded patch panel provides high density solutions which simplify and speed up the deployment and servicing. It is designed to provide maximum flexibility and high performance for all 10G networks. Performance conforms to proposed Cat.6A Permanent Link/Channel requirement of ANSI/TIA-568-C.2, EN 50173-1 and ISO/IEC 11801 Class Ea specifications.
Premium Line Category 6A 0.5U shielded patch panel is in standard 19" but in 0.5U size on the purpose of rack space saving. There are 24 ports in 0.5U or 48 ports in 1U with performance for 10 Gigabit Ethernet can be used and that is conformed to the standards for data centers ANSI /TIA-942 and ISO / IEC 24764.

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 zinc alloy

Electrical Characteristics

Dielectric Strength	1000V RMS for 1min
Current Rating	1.5Amp Max.
Insulation Resistance	10MΩ Min.
Contact Resistance	2mΩ per contact
Temperature Range	-10°C to 60°C
Humidity	10%~90%; non condensing

Applications

- 10GBASE-T Ethernet
- 1000BASE-Tx Gigabit Ethernet
- 1000BASE-T Gigabit Ethernet
- 100BASE-Tx Fast Ethernet.
- 10BASE-T Ethernet.
- Voice, Video and other applications.

All the products are verified to the electrical characteristics required in the directive.

179272412

Category 6A 0.5U Shielded Patch Panel

PART NO.	DESCRIPTION	PACKING SIZE
179272412	Premium Line Cat.6A 90° 0.5U Shielded Patch Panel, Dual Type IDC, 24 Ports, Black	54×25×23.5 cm
179272419	Premium Line Cat.6A 90° 0.5U Shielded Patch Panel, Dual Type IDC, 24 Ports, RAL7035	54×25×23.5 cm

Modular Patch Panel
Cat.6A 180 ° Unshielded Patch Panel

Premium Line Category 6A unshielded patch panel complies with ANSI/TIA-568-C.2, EN 50173-1 and ISO/IEC 11801 Class Ea specifications.
The complete module complies with EU RoHS directive.
The construction in standard 1U 19" size, suits all 19" rack installation. The main metal frame is made of SECC material, with the thickness over 1.0mm. Dual type IDC accepts 22-26 AWG solid cable, easy for termination with 110 or Krone tools. The finished product is available in 24 ports (1U).

Physical Characteristics

Jack	Phosphor bronze, 50μ inch gold plating over nickel in contact area
IDC	100μ inch nickel plated over phosphor bronze

Electrical Characteristics

Dielectric Strength	1000V RMS for 1min
Current Rating	1.5Amp Max.
Insulation Resistance	10MΩ Min.
Contact Resistance	2mΩ per contact
Temperature Range	-10°C to 60°C
Humidity	10%~90%; non condensing

Applications

- 10GBASE-T Ethernet
- 1000BASE-TX Gigabit Ethernet
- 1000BASE-T Gigabit Ethernet
- 100BASE-TX Fast Ethernet
- 10BASE-T Ethernet
- Voice, Video and other applications

179122412

All the products are verified to the electrical characteristics required in the directive.

Cat.6A 180 ° Unshielded Patch Panel

PART NO.	DESCRIPTION	PACKING SIZE
179122412	Premium Line Cat.6A 180° unshielded patch panel, dual type IDC, 1U,24 ports,black	50*24.5*25.5cm

Modular Patch Panel
1U 24port Angled Modular Patch

Features:
- Angled design saving space of frontal cable management bar
- For passive racks, easy identification from standard design, benefits for important links wiring
- Easy click on management bar, high strength affordable
- Remarkable Labeling holder for management

170262402

1U 24port Angled Modular Patch Panel

PART NO.	DESCRIPTION	PACKING SIZE
170262402	Premium Line 1U 24port angled modular patch panel with cable management, black	57*29*30cm

Keystone Jack
Category 6A 180° Shielded Die-casting Keystone Jack, Slim Type

Premium Line 180 ° Category 6A shielded die-casting keystone jack in our new upgrade design, fully achieves the component standard ISO/IEC 11801 AMD:2 released in 2010. Extra 30% permanent link headroom margin guaranteed compared to traditional Category 6A products and links, and it's also the best choice to support IEEE 802.3an 10G applications.

- Category 6A module, ISO/IEC 11801 AMD2:2010-04 compliant
- Slim design gains the module fitting with all kinds of modular outlet/panel
- Short link 3 connectors ISO 11801 Permanent Link Tested
- Higher performance guarantees high data traffic and even expanding
- 100% test and report attached, quality assured and easy indicate
- For Datacenter horizontal crossconnect fast jumper to Inter-crossconnect
- Fast deployment for expanding and maintenance
- Shutter is optional

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 zinc alloy

Electrical Characteristics

Dielectric Strength	1000V RMS for 1min
Current Rating	1.5Amp Max.
Insulation Resistance	10MΩ Min.
Contact Resistance	2mΩ per contact
Temperature Range	-10°C to 60°C
Humidity	10%~90%; non condensing

Applications

- 10GBASE-T Ethernet
- 1000BASE-Tx Gigabit Ethernet
- 1000BASE-T Gigabit Ethernet
- 100BASE-Tx Fast Ethernet.
- 10BASE-T Ethernet.
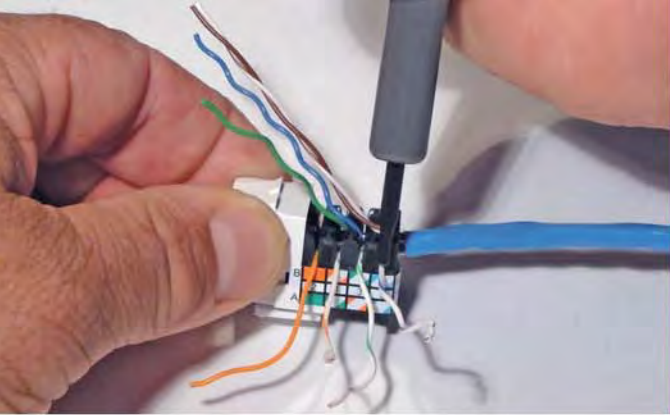- Voice, Video and other applications.

109824010

109924010

Category 6A 180° Shielded Die-casting Keystone Jack

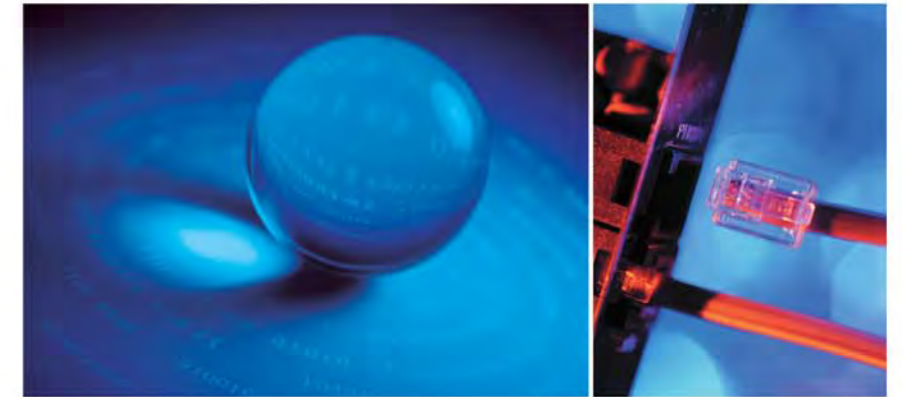| PART NO.	DESCRIPTION	PACKING SIZE
109824010	Premium Line Category 6A 180° Shielded Die-casting Keystone Jack, Slim type	53.8×35.2×27cm
109924010	Premium Line Category 6A 180° Shielded Die-casting Keystone Jack, Slim type, with shutter	53.8×35.2×27cm

CATEGORY 6A CABLING SOLUTIONS

Unshielded Keystone Jack
Category 6A 180° Unshielded Toolless Keystone Jack, Slim Type

Premium Line Cat.6A 180 ° unshielded toolless keystone jack guarantees real ISO/IEC 11801 short link performance, passes the permanent link test with the length of 2m, supports T568 A&B wiring.

With its good & stable performance, this module earns a good sale result in the market.

Physical Characteristics

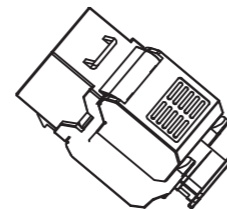|	
Housing	PC, UL94 V-0
Jack Contact	Phosphor bronze, 50μ inch gold plated over nickel
IDC Contacts	100μ inch nickel plated over phosphor bronze

Electrical Characteristics

Dielectric Strength	1000V RMS for 1min
Current Rating	1.5Amp Max.
Insulation Resistance	10MΩ Min.
Contact Resistance	2mΩ per contact
Temperature Range	-10°C to 60°C
Humidity	10%~90%; non condensing

Applications

⊙ 10GBASE-T Ethernet
⊙ 1000BASE-TX Gigabit Ethernet
⊙ 1000BASE-T Gigabit Ethernet
⊙ 100BASE-TX Fast Ethernet.
⊙ 10BASE-T Ethernet.
⊙ Voice, Video and other applications.

109324010

Category 6A 180° Unshielded Keystone Jack

PART NO.	DESCRIPTION	PACKING SIZE
109324010	Cat.6A 180°Unshielded Toolless Keystone Jack, Slim Type, White	53.8×35.2×27 cm

Unshielded Keystone Jack
Category 6A 180° Unshielded Keystone Jack

Premium Line 180 ° unshielded keystone jack is in classical design, compatible with all Premium Line unloaded module. The dual type IDC accepts 22-26 AWG solid cables, easy terminated with 110 or Krone tools, supports T568 A&B wiring.

Physical Characteristics

|	
Housing	PC, UL94 V-0
Jack Contact	Phosphor bronze, 50μ inch gold plated over nickel
IDC Contacts	100μ inch nickel plated over phosphor bronze

Electrical Characteristics

Dielectric Strength	1000V RMS for 1min
Current Rating	1.5Amp Max.
Insulation Resistance	10MΩ Min.
Contact Resistance	2mΩ per contact
Temperature Range	-10°C to 60°C
Humidity	10%~90%; non condensing

Applications

⊙ 10GBASE-T Ethernet
⊙ 1000BASE-TX Gigabit Ethernet
⊙ 1000BASE-T Gigabit Ethernet
⊙ 100BASE-TX Fast Ethernet.
⊙ 10BASE-T Ethernet.
⊙ Voice, Video and other applications.

109121010
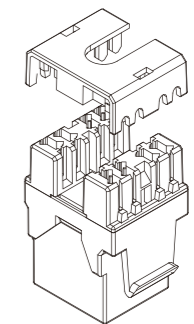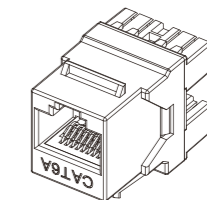
Category 6A 180° Unshielded Keystone Jack

| PART NO.	DESCRIPTION	PACKING SIZE
109121010	Premium Line Category 6A 180° Unshielded Keystone Jack, Dual Type IDC, White	53.8×35.2×27 cm
171022402	Premium Line 24port High Density Unloaded Patch Panel for Unshielded Keystone Jacks, Black	50.4×24.5×25.4 cm

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Patch Cord
Category 6A U/FTP Patch Cord

Premium Line Category 6A U/FTP system patch cord is designed for the high level project use. Compatible with the patch panel, keystone jack and installation cable, to constitute excellent channel performance.Compliant with Cat.6A standards as ANSI/TIA 568-C.2, ISO/IEC 11801 Class EA and EN 50173-1.
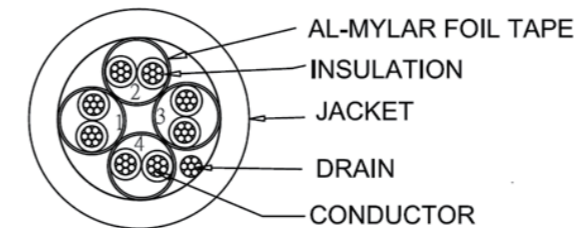
AL-MYLAR FOIL TAPE
INSULATION
JACKET
DRAIN
CONDUCTOR

Construction

Conductor	Material / size	Bare Copper / 26 AWG
Insulation	Material	Foam-Skin PE
Inner-Shield	Aluminum-Mylar	An aluminum foil screen around each pair
Drain wire	Material	Stranded Tinned Copper
Sheath	Material	PVC / LSOH
	Diameter	6.0 ± 0.2 mm

Category 6A U/FTP Patch Cord, PVC

Length	Grey	Green	Blue	Red	Yellow
0.5 m	182810055	182810056	182810054	182810053	182810058
1 m	182810105	182810106	182810104	182810103	182810108
2 m	182810205	182810206	182810204	182810203	182810208
3 m	182810305	182810306	182810304	182810303	182810308
5 m	182810505	182810506	182810504	182810503	182810508
7 m	182810705	182810706	182810704	182810703	182810708
10 m	182811005	182811006	182811004	182811003	182811008

Other lengths, colors or halogen free cables on request

Patch Cord
Category 6A S/FTP Patch Cord

Premium Line Category 6A S/FTP patch cord supports whole link achieves Class EA 500MHz 10G channel applications.
To realize the high performance, the cable is coming with two shielding layers. Each pair is wrapped by individual Aluminum-Mylar film, to eliminate the near end pair to pair interferences.
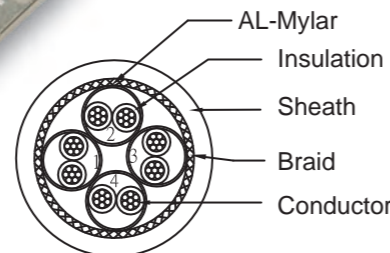Again a tinned copper braid laid over the inner structure, provides protection against outside EMI interferences.

AL-Mylar
Insulation
Sheath
Braid
Conductor
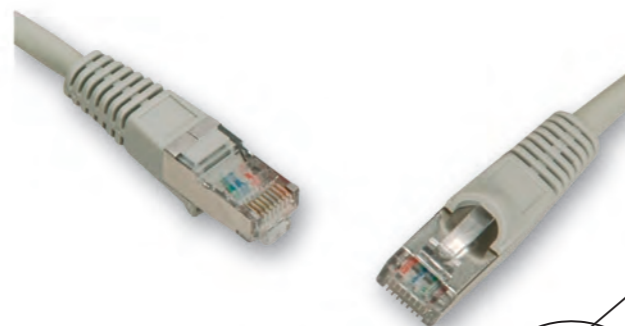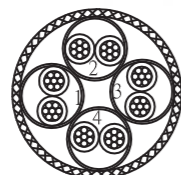
Pair Individual foiled   Overall Braid Shielding   S/FTP Category 6A 10G Cord

Construction

Conductor	Material / size	Bare Copper / 26 AWG
Insulation	Material	Foam-Skin PE
Inner-Shield	Aluminum-Mylar	An Aluminum Foil Screen Around Each Pair
Braid	Material	Tinned Copper
Sheath	Material	PVC / LSOH
	Diameter	5.7± 0.3 mm

Category 6A S/FTP Patch Cord, LSOH

Length	Grey	Green	Blue	Red	Yellow
0,5 m	182420055	182420056	182420054	182420053	182420058
1 m	182420105	182420106	182420104	182420103	182420108
2 m	182420205	182420206	182420204	182420203	182420208
3 m	182420305	182420306	182420304	182420303	182420308
5 m	182420505	182420506	182420504	182420503	182420508
7 m	182420705	182420706	182420704	182420703	182420708
10 m	182421005	182421006	182421004	182421003	182421008

Other lengths, colors or PVC cables on request

Toolless RJ45 Plug
Cat.6A Shielded Toolless RJ45 Plug

Premium-Line Category 6A Toolless RJ45 Plug is engineered to provide full shield protection and reliability, support up to 10 Gigabit Ethernet applications and ensure maximum performance and superior signal quality.

◎ Meeting the ANSI/TIA-568-C.2, ISO/IEC11801 and EN50173-1 specifications.
◎ Complying with category 6A patch cord testing performance requirements.
◎ Connector accepts 22-26 AWG solid and stranded shielded cables.
◎ Supporting T568 A&B wiring & easy installation.
◎ Terminating cable without tools.
◎ Ideal for industrial applications.

Cat.6A Shielded Toolless RJ45 Plug

PART NO.	DESCRIPTION	PACKING SIZE
159210001	Premium Line Cat.6A shielded toolless RJ45 plug	53.8x31x23 cm

Patch Cord
Category 6A U/UTP Patch Cord

Premium Line Category 6A U/UTP patch cord supports the whole channel transmission as per standard ANSI/TIA-568-C.2, ISO/IEC 11801 and EN 50173-1 Class E$_A$ specifications. The patch cord is finished with snag proof boot.

Construction

Conductor	Material / size	Bare Copper / 24 AWG
Insulation	Material	HDPE
Sheath	Material	PVC / LSOH
	Diameter	7.5 ± 0.3 mm

Category 6A U/UTP Patch Cord, PVC

Length	Grey	Green	Blue	Red	Yellow
0.5 m	182110055	182110056	182110054	182110053	182110058
1 m	182110105	182110106	182110104	182110103	182110108
2 m	182110205	182110206	182110204	182110203	182110208
3 m	182110305	182110306	182110304	182110303	182110308
5 m	182110505	182110506	182110504	182110503	182110508
7 m	182110705	182110706	182110704	182110703	182110708
10 m	182111005	182111006	182111004	182111003	182111008

Other lengths, colors or halogen free cables on request

Flexible Consolidation Point Cable
Class E$_A$ 10G CP Cable

Flexible consolidation point cables are popular in horizontal cabling system, with its featured characteristic – Easy and Fast Deployment – is realized by professional IT staff, and it's applied in many occasions and places, like ZDA to EDA in datacenter, open office easy and quick expanding nodes, extensions in horizontal cabling etc.

Premium Line offers Class EA 10G CP cable which is 100% through factory Short Link 3 Connectors ISO 11801 Permanent Link tested and verified with features as,

◎ Flexible patch cable
◎ RJ45 plug to keystone jack (109824010)
◎ Optional keystone upon choice
◎ Factory terminated and tested
◎ Available length 5m, 7m, 10m, 20m
◎ Test service and results attached

Class E$_A$ S/FTP CP Cable, LSOH

Length	Grey	Orange
5 m	71942050520	71942050020
7 m	71942070520	71942070020
10 m	71942100520	71942100020
20 m	71942200520	71942200020

Industrial Face Plate
Industrial Face Plate, W/ Shielded Keystone Jack

◎ Keystone jack's performance conform to ANSI/TIA-568-C.2, ISO/IEC 11801 and EN 50173-1 specifications
◎ SupportsT568 A&B wiring
◎ Terminate using 110 or Krone tools
◎ Face plate material: stainless steel, sealing material: FKM
◎ Face plate thickness:1.0mm, size: 130×130mm
◎ Back box material: ABS, size: 128×128×67mm
◎ Ingress protection rating: IP67, according to IEC 60529:2001-02
◎ RoHS compliant

Industrial Face Plate, W/ Shielded Keystone Jack

PART NO.	DESCRIPTION	PACKING SIZE
129910y00	Premium Line industrial face plate, w/ Cat.6A shielded keystone jack "y", 1=1port; 2=2ports	52x40x32cm

Industrial Patch Cord
Category 6A S/FTP Industrial Patch Cord

Industrial CAT.6A S/FTP patch cords are specially designed for Ethernet connections in areas with harsh environmental conditions such as humidity, water, dust or extreme temperatures.

IP67(A) + IP20(B)	IP67(A) + IP67(B)	IP20(A) + IP20(B)

Construction

Conductor	Material / size	Bare Copper / 26 AWG
Insulation	Material	Foam-Skin PE
Inner-Shield	Aluminum-Mylar	An aluminum foil screen around each pair
Braid	Material	Tinned Copper
Inner sheath	Material	PVC or LSOH
Outer sheath	Material	TPE, black
	Diameter	7.5 ±0.2mm

Category 6A S/FTP Industrial Patch Cord

Length	IP20/IP20	IP67/IP20	IP67/IP67
0.5 m	1894200523	1894200521	1894200522
1 m	1894201023	1894201021	1894201022
2 m	1894202023	1894202021	1894202022
3 m	1894203023	1894203021	1894203022
5 m	1894205023	1894205021	1894205022
7 m	1894207023	1894207021	1894207022
10 m	1894210023	1894210021	1894210022

Other lengths cables on request

CATEGORY 6A CABLING SOLUTIONS

CATEGORY 6 CABLING SOLUTIONS

With over 20 years experience and know-how on communicating products design & developing, Premium Line has built maturity systems both in high tech develop and research center & complete structural quality assurance lab and team. With team approach, all components and the cabling solutions, definitely will be your first choice and reliable selection.

premium line

Solutions and Components

Currently, the Category 6 solution is the most popular in the structural cabling. Premium Line has been the high quality source in the worldwide market since this becoming the trend. With the comprehensive product range, we supply components – communication cables, keystone jacks, compact outlets, patch panels, patch cables… the complete solutions and system warranty. All these products and solution performance has been verified and approved by third party laboratory – "3P" and "ETL". After years of good result in market also systemically upgrading of the products, assure you the great benefits both in quality and cost.

Our Quality Guarantee

To build a complete high level channel in the project, the precondition is to make sure each component with compatible resistance, thus, the best solution is to use the same brand products or single component with excellent performance.

Premium Line offers you complete Category 6 system solutions which fulfill these requirements, also with the internal specific definition and qualification procedure for each single component is right on the purpose to ease the installation with good and convincible field test results.

Be Our 25 Years Warranty Member

To guide and support companies, which use complete Premium Line brand owned products, we offer the 25 years warranty. Premium Line will hold distributor and installer trainings and certification. With this certificate, all members will be available to apply for 25 years quality warranty and service.

Project Support

Our sales team will share you marketing strategy and almost world project information, which will help you to win the bid. Our international purchasing team will source you the special products to make your supply chain easy and simple.

Premium Line
Category 6 Cabling Solutions

Installation cable
Category 6 U/FTP 450MHz
Category 6 F/UTP 250MHz
Category 6 U/UTP 250MHz
Category 6 U/UTP Outdoor Gel Filled

Shielded Keystone Jack
Category 6 Shielded Keystone Jack
Category 6 Shielded Die-Casting Keystone Jack
Category 6 90° & 180° Unshielded Keystone Jack
Category 6 90° Unshielded Slim Keystone Jack
Category 6 180° Unshielded Shutter Type Keystone Jack

Modular Patch Panel
High Density Unloaded Patch Panel

Patch Panel
Category 6 1U & 0.5U Shielded Patch Panel
Category 6 Unshielded Patch Panel
Category 6 Labeling Holder Panel
Category 6 0.5U/24 Port & 1U/48 Port Unshielded Patch Panel

Patch Cord
Category 6 S/FTP Patch Cord
Category 6 U/UTP System Patch Cord
Category 6 U/UTP Retail Patch Cord
Category 6 U/UTP Slimline Patch Cord

Flexible Consolidation Point Cable
Category 6 U/UTP CP Cable

CATEGORY 6
CABLING SOLUTIONS

*premium
line*

www.premiumline-cabling.com

Premium Line Category 6 components comply with requirements as per standard ANSI/TIA 568-C.2, ISO/IEC 11801 ED.2, EN 50173-1, these consist of compete Category 6 channel to fully support the corresponding protocols & communication services.

Installation Cable
Category 6 U/FTP 450MHz

Standards:

◎ ANSI/TIA-568-C.2
◎ ISO/IEC 11801 ED.2
◎ CENELEC EN 50173-1
◎ CENELEC EN 50288-5-1
◎ Flame retardancy according to IEC 60332-1-2
◎ RoHS compliant

Application:

◎ 1000BASE-TX (Gigabit Ethernet)
◎ 1000BASE-T (Gigabit Ethernet)
◎ 100BASE-TX Fast Ethernet
◎ 10BASE-T Ethernet
◎ Voice

206641225

Conductor
Insulation
Al-Mylar foil
Sheath
Drain Wire
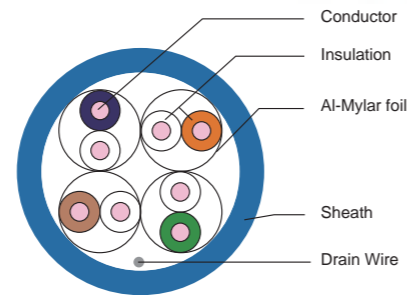
Construction

Conductor	Material / size	Bare Copper / 23 AWG
Insulation	Material	Foam-Skin PE
Inner-Shield	Aluminum-Mylar	An Aluminum Foil Screen Around Each Pair
Drain Wire	Material	Stranded Tinned Copper / 26AWG
Sheath	Material	PVC / LSOH
	Diameter	7.2± 0.3 mm

Mechanical & Environmental Characteristics

Bending Radius	≥ 6D, without load
	≥ 8D, with load
Operation Temperature	-20°C~+60°C
Installation Temperature	0°C~+50°C
Storage Temperature	-30°C~+60°C

Electrical Performance

Freq	Insertion Loss		NEXT		PS NEXT		ACR		PS ACR		ACR-F		PS ACR-F		Return Loss	
(MHz)	(dB)		(dB/100m)		(dB)		(dB)		(dB)		(dB)		(dB)		(dB)	
	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.
1.0	2.1	1.8	74.3	87.3	72.3	85.3	72.2	85.5	70.2	83.5	67.8	84.8	64.8	79.8	20.0	29.0
4.0	3.8	3.5	65.3	78.3	63.3	76.3	61.4	74.8	59.4	72.8	55.8	72.8	52.8	67.8	23.0	32.0
10.0	6.0	5.6	59.3	72.3	57.3	70.3	53.3	66.7	51.3	64.7	47.8	64.8	44.8	59.8	25.0	38.0
16.0	7.6	7.1	56.2	69.2	54.2	67.2	48.6	62.1	46.6	60.1	43.7	60.7	40.7	55.7	25.0	34.0
20.0	8.5	7.9	54.8	67.8	52.8	65.8	46.2	59.9	44.2	57.9	41.8	58.8	38.8	53.8	25.0	34.0
31.25	10.8	10.0	51.9	64.9	49.9	62.9	41.1	54.9	39.1	52.9	37.9	54.9	34.9	49.9	23.6	32.0
62.5	15.5	14.4	47.4	60.4	45.4	58.4	31.9	46.0	29.9	44.0	31.9	48.9	28.9	43.9	21.5	32.0
100.0	19.9	18.6	44.3	57.3	42.3	55.3	24.4	38.7	22.4	36.7	27.8	44.8	24.8	39.8	20.1	32.0
160.0	25.8	24.1	41.2	54.2	39.2	52.2	15.5	230.1	13.5	28.1	23.7	40.7	20.0	35.7	18.7	31.0
200.0	29.0	26.8	39.8	52.8	37.8	50.8	10.6	26.0	8.6	24.0	21.8	38.8	18.8	33.8	18.0	29.0
250.0	33.0	30.5	38.3	51.3	36.3	49.3	5.3	20.8	3.3	18.8	19.8	37.0	16.8	31.8	17.3	29.0
300.0*	—	33.7	—	50.0	—	48.1	—	16.3	—	14.4	—	36.0	—	30.0	—	27.0
450.0*	—	43.3	—	48.5	—	45.3	—	5.2	—	2.0	—	30.0	—	25.0	—	24.0

*Values for frequencies above industry requirements are for information only

Category 6 U/FTP Installation Cable

| PART NO.	DESCRIPTION	PACKING SIZE
206641225	Premium Line Category 6 U/FTP Installation Cable, 500 m Reel, PVC, Grey	50(O.D)×31(H) cm
206642225	Premium Line Category 6 U/FTP Installation Cable, 500 m Reel, LSOH, Grey	50(O.D)×31(H) cm

Installation Cable
Category 6 F/UTP 250MHz

Standards:

◎ ANSI/TIA-568-C.2
◎ ISO/IEC 11801 ED.2
◎ CENELEC EN 50173-1
◎ CENELEC EN 50288-5-1,
◎ Flame retardancy is verified according to IEC 60332-1-2.
◎ RoHS compliant

Application:

◎ 1000BASE-TX (Gigabit Ethernet)
◎ 1000BASE-T (Gigabit Ethernet)
◎ 100BASE-TX Fast Ethernet
◎ 10BASE-T Ethernet
◎ Voice

206241125

Insulation
Conductor
Mylar
Drain-Wire
Al-Mylar
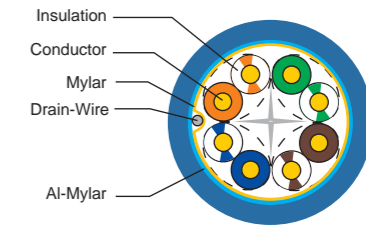
Construction

Conductor	Material / size	Bare Copper / 23 AWG
Insulation	Material	HDPE
Sheath	Material	PVC / LSOH
	Diameter	7.4± 0.4 mm

Mechanical & Environmental Characteristics

Bending Radius	≥ 6D, without load
	≥ 8D, with load
Operation Temperature	-20°C~+60°C
Installation Temperature	0°C~+50°C
Storage Temperature	-30°C~+60°C

Electrical Performance

Freq	Insertion Loss		NEXT		PS NEXT		ACR		PS ACR		ACR-F		PS ACR-F		Return Loss	
(MHz)	(dB)		(dB/100m)		(dB)		(dB)		(dB)		(dB)		(dB)		(dB)	
	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.
1.0	2.1	1.8	74.3	82.3	72.3	77.3	72.2	80.5	70.2	75.5	67.8	84.8	64.8	79.8	20.0	29.0
4.0	3.8	3.5	65.3	73.3	63.3	68.3	61.4	69.8	59.4	64.8	55.8	72.8	52.8	67.8	23.0	32.0
10.0	6.0	5.6	59.3	67.3	57.3	62.3	53.3	61.7	51.3	56.7	47.8	64.8	44.8	59.8	25.0	38.0
16.0	7.6	7.1	56.2	64.2	54.2	59.2	48.6	57.1	46.6	52.1	43.7	60.7	40.7	55.7	25.0	34.0
20.0	8.5	7.9	54.8	62.8	52.8	57.8	46.2	54.9	44.2	49.9	41.8	58.8	38.8	53.8	25.0	34.0
31.25	10.8	10.0	51.9	59.9	49.9	54.9	41.1	49.9	39.1	44.9	37.9	54.9	34.9	49.9	23.6	32.0
62.5	15.5	14.4	47.4	55.4	45.4	50.4	31.9	41.0	29.9	36	31.9	48.9	28.9	43.9	21.5	32.0
100.0	19.9	18.6	44.3	52.3	42.3	47.3	24.4	33.7	22.4	28.7	27.8	44.8	24.8	39.8	20.1	32.0
160.0	25.9	24.1	41.2	49.2	39.2	44.2	15.5	25.1	13.5	20.1	23.7	40.7	20	35.7	18.7	31.0
200.0	29.0	26.8	39.8	47.8	37.8	42.8	10.6	21.0	8.6	15.2	21.8	38.8	18.8	33.8	18.0	29.0
250.0	33.0	30.5	38.3	46.3	36.3	40.3	5.3	15.8	3.3	10.8	19.8	37	16.8	31.8	17.3	29.0

Category 6 F/UTP Installation Cable

PART NO.	DESCRIPTION	PACKING SIZE
206241125	Premium Line Category 6 F/UTP Installation Cable, 305m Reel, PVC, Grey	37×37×21 cm
206242125	Premium Line Category 6 F/UTP Installation Cable, 305m Reel, LSOH, Grey	37×37×21 cm

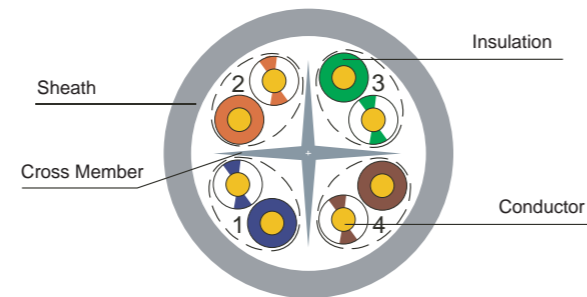## Installation Cable
Category 6 U/UTP 250MHz

Standards:

◎ ANSI/TIA-568-C.2
◎ ISO/IEC 11801 ED.2
◎ CENELEC EN 50173-1
◎ CENELEC EN 50288-6-1,
◎ Flame retardancy is verified according to IEC 60332-1-2.
◎ 3P Verified
◎ ETL Verified
◎ RoHS compliant

Application:

◎ 1000BASE-TX (Gigabit Ethernet)
◎ 1000BASE-T (Gigabit Ethernet)
◎ 100BASE-TX Fast Ethernet
◎ 10BASE-T Ethernet
◎ Voice

206141115

Construction

Conductor	Material / size	Bare Copper / 23 AWG
Insulation	Material	HDPE
Sheath	Material	PVC / LSOH
	Diameter	6.2± 0.3 mm

Mechanical & Environmental Characteristics

Bending Radius	≥ 6D, without load
	≥ 8D, with load
Operation Temperature	-20°C~+60°C
Installation Temperature	0°C~+50°C
Storage Temperature	-30°C~+60°C

Electrical Performance

Freq (MHz)	Insertion Loss (dB)		NEXT (dB/100m)		PS NEXT (dB)		ACR (dB)		PS ACR (dB)		ACR-F (dB)		PS ACR-F (dB)		Return Loss (dB)	
	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.
1.0	2.1	1.8	74.3	82.3	72.3	77.3	72.2	80.5	70.2	75.5	67.8	84.8	64.8	79.8	20.0	29.0
4.0	3.8	3.5	65.3	73.3	63.3	68.3	61.4	69.8	59.4	64.8	55.8	72.8	52.8	67.8	23.0	32.0
10.0	6.0	5.6	59.3	67.3	57.3	62.3	53.3	61.7	51.3	56.7	47.8	64.8	44.8	59.8	25.0	38.0
16.0	7.6	7.1	56.2	64.2	54.2	59.2	48.6	57.1	46.6	52.1	43.7	60.7	40.7	55.7	25.0	34.0
20.0	8.5	7.9	54.8	62.8	52.8	57.8	46.2	54.9	44.2	49.9	41.8	58.8	38.8	53.8	25.0	34.0
31.25	10.8	10.0	51.9	59.9	49.9	54.9	41.1	49.9	39.1	44.9	37.9	54.9	34.9	49.9	23.6	32.0
62.5	15.5	14.4	47.4	55.4	45.4	50.4	31.9	41.0	29.9	36	31.9	48.9	28.9	43.9	21.5	32.0
100.0	19.9	18.6	44.3	52.3	42.3	47.3	24.4	33.7	22.4	28.7	27.8	44.8	24.8	39.8	20.1	32.0
160.0	25.9	24.1	41.2	49.2	39.2	44.2	15.5	25.1	13.5	20.1	23.7	40.7	20	35.7	18.7	31.0
200.0	29.0	26.8	39.8	47.8	37.8	42.8	10.6	21.0	8.6	15.2	21.8	38.8	18.8	33.8	18.0	29.0
250.0	33.0	30.5	38.3	46.3	36.3	40.3	5.3	15.8	3.3	10.8	19.8	37	16.8	31.8	17.3	29.0

Category 6 U/UTP Installation Cable

PART NO.	DESCRIPTION	PACKING SIZE
206141115	Premium Line Category 6 U/UTP Installation Cable, 305m Box, PVC, Grey	42×42×21 cm
206142115	Premium Line Category 6 U/UTP Installation Cable, 305m Box, LSOH, Grey	42×42×21 cm

Installation Cable
Category 6 U/UTP Outdoor Gel Filled

Premium Line Category 6 gel filled cable is ideally designed for outdoor cabling. Each conductor made by annealed 23AWG bare copper, guarantees the conductor elongation strength, the semi-solid gel filling around each pair, against the water penetration and protects inner insulation from vile weather. The cable completed with excellent PE out sheath, ensures it could endure all weather condition in temperature range -40°C ~60°C.
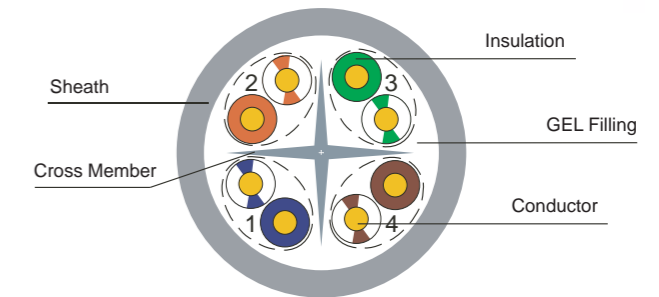
Standards:

◎ ANSI/TIA-568-C.2
◎ ISO/IEC 2nd Edition 11801 CLASS E
◎ CENELEC EN 50173-1
◎ CENELEC EN 50288-6-1, IEC 61156-5 for horizontal cable
◎ RoHS compliant

Application:

◎ CCTV IP system video, voice transmission
◎ POE system
◎ 1000BASE-TX (Gigabit Ethernet)
◎ 1000BASE-T (Gigabit Ethernet)
◎ 100BASE-TX Fast Ethernet
◎ 10BASE-T Ethernet
◎ Voice

726143122

Construction

Conductor	Material / size	Bare Copper/23 AWG
Insulation	Material	HDPE
Filling Gel		Petroleum Jelly
Sheath	Material	PE
	Diameter	7.2± 0.5 mm
Operation Temperature		-40°C ~60°C

Electrical Performance

Freq (MHz)	Insertion Loss (dB)		NEXT (dB/100m)		PS NEXT (dB)		ACR-F (dB)		PSACR-F (dB)		Return Loss (dB)	
	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.
1.0	1.9	1.7	65.0	67.1	62.0	64.1	64.2	76.4	61.2	74.5	19.1	26.1
4.0	3.5	3.2	64.1	68.8	61.8	65.8	52.1	64.5	49.1	62.4	21.0	32.5
10.0	5.5	5.2	57.8	60.8	55.5	57.8	44.2	56.4	41.2	54.5	21.0	34.1
16.0	7.0	6.7	54.6	56.6	52.2	53.6	40.1	52.3	37.1	40.4	20.0	30.6
20.0	7.9	7.6	53.1	55.1	50.7	52.1	38.2	50.4	35.2	48.5	19.5	31.0
31.25	10.0	9.7	50.0	53.4	47.5	50.4	34.3	46.4	31.3	44.5	18.5	31.5
62.5	14.4	14.2	45.1	48.0	42.7	45.0	28.3	40.5	25.3	38.5	16.0	27.4
100.0	18.6	18.3	41.8	44.4	39.3	41.4	24.2	36.3	21.2	34.0	14.0	26.0
200.0	27.4	27.1	36.9	39.0	34.3	36.0	18.2	30.5	15.2	28.1	11.0	23.8
250.0	31.1	30.8	35.3	37.2	32.7	34.2	16.2	28.5	13.2	26.1	10.0	22.5

Category 6 U/UTP Installation Cable

PART NO.	DESCRIPTION	PACKING SIZE
726143122	Premium Line Category 6 U/UTP Outdoor Installation Cable, Gel Filled,-40℃, PE, 305m Reel	35(O.D)x29.8(H)cm

premium
line

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Keystone Jack
Category 6 Shielded Keystone Jack

Premium Line 90 ° shielded keystone jack in fully shielded design, optimizes shield effectiveness protection from EMI. Dual IDC connector can accept 22-26 AWG solid cables, supports T568 A&B wiring, and it uses 110 or Krone tools for termination.

Premium Line Category 6 shielded keystone jack performance conforms to ANSI/TIA-568-C.2, ISO/IEC 11801 and EN50173-1 Category 6 specifications, supports the channel link bandwidth up to 250MHz.

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

Electrical Characteristics

Dielectric Strength	1000V RMS for 1min
Current Rating	1.5Amp Max.
Insulation Resistance	10MΩ Min.
Contact Resistance	2mΩ per contact
Temperature Range	-10°C to 60°C
Humidity	10%~90%; non condensing

Applications
◎ 1000BASE-TX Gigabit Ethernet
◎ 1000BASE-T Gigabit Ethernet
◎ 100BASE-TX Fast Ethernet
◎ 10BASE-T Ethernet
◎ Voice, Video and other applications

106211010

All the products are verified to the electrical characteristics required in the directive.

Category 6 Shielded Keystone Jack

PART NO.	DESCRIPTION	PACKING SIZE
106211010	Premium Line Category 6 90° Shielded Keystone Jack, Dual Type IDC	53.8×35.2×27 cm

Keystone Jack
Category 6 Shielded Die-Casting Keystone Jack

Premium Line 180 ° shielded die-casting keystone jack in special design for optimal EMI protection. Tool-less design does not need additional tools for termination, supports T568 A&B wiring.

Physical Characteristics

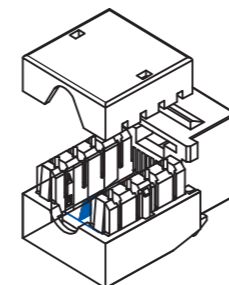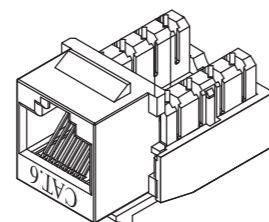|	
Body Material	Housing: PC, UL94 V-0
	Body: zinc die-casting
Jack Contact	Phosphor bronze, 50μ inch gold plated over nickel
IDC Contacts	100μ inch nickel plated over phosphor bronze

Electrical Characteristics

Dielectric Strength	1000V RMS for 1min
Current Rating	1.5Amp Max.
Insulation Resistance	10MΩ Min.
Contact Resistance	2mΩ per contact
Temperature Range	-10°C to 60°C
Humidity	10%~90%; non condensing

Applications
◎ 1000BASE-TX Gigabit Ethernet
◎ 1000BASE-T Gigabit Ethernet
◎ 100BASE-TX Fast Ethernet.
◎ 10BASE-T Ethernet.
◎ Voice, Video and other applications.

106524010

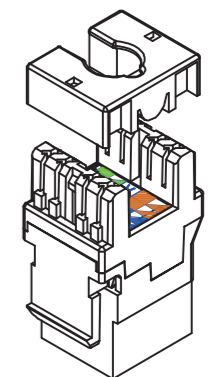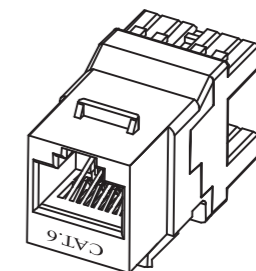All the products are verified to the electrical characteristics required in the directive.

Category 6 Shielded Die-Casting Keystone Jack

PART NO.	DESCRIPTION	PACKING SIZE
106524010	Premium Line Category 6 180° Shielded Die-Casting Keystone Jack	42×41×38 cm
170252402	Premium Line High Density Shielded Unloaded Patch Panel with Integrated Bar	50.5×27.9×27 cm

premium
line

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Keystone Jack
Category 6 90° Unshielded Keystone Jack

Premium Line 90° unshielded keystone jack is in classical design, the dual type IDC accepts 22-26 AWG solid cables, easy terminated with 110 or Krone tools, supports T568 A&B wiring.

With its good & stable performance, this module earns the good sales result in the market.

Physical Characteristics

Housing	PC, UL94 V-0
Jack Contact	Phosphor bronze, 50μ inch gold plated over nickel
IDC Contacts	100μ inch nickel plated over phosphor bronze

Electrical Characteristics

Dielectric Strength	1000V RMS for 1min
Current Rating	1.5Amp Max.
Insulation Resistance	10MΩ Min.
Contact Resistance	2mΩ per contact
Temperature Range	-10°C to 60°C
Humidity	10%~90%; non condensing

Applications

- ◉ 1000BASE-TX Gigabit Ethernet
- ◉ 1000BASE-T Gigabit Ethernet
- ◉ 100BASE-TX Fast Ethernet
- ◉ 10BASE-T Ethernet
- ◉ Voice, Video and other applications

106111010

All the products are verified to the electrical characteristics required in the directive.

Category 6 Unshielded Keystone Jack

PART NO.	DESCRIPTION	PACKING SIZE
106111010	Premium Line Category 6 90° Unshielded Keystone Jack, Dual Type IDC, White	53.8×35.2×27 cm

Keystone Jack
Category 6 180° Unshielded Keystone Jack

Premium Line 180 ° unshielded keystone jack is in classical design, it's compatible with all Premium Line unloaded modules. The dual type IDC accepts 22-26 AWG solid cables, easy terminated with 110 or Krone tools, supports T568 A&B wiring.

With its good & stable performance, this module earns the good sales result in the market.

106121010

Physical Characteristics

Body Material	Housing: PC, UL94 V-0
Jack Contact	Phosphor bronze, 50μ inch gold plated over nickel
IDC Contacts	100μ inch nickel plated over phosphor bronze

Electrical Characteristics

Dielectric Strength	1000V RMS for 1min
Current Rating	1.5Amp Max.
Insulation Resistance	10MΩ Min.
Contact Resistance	2mΩ per contact
Temperature Range	-10°C to 60°C
Humidity	10%~90%; non condensing

Applications

- ◉ 1000BASE-TX Gigabit Ethernet
- ◉ 1000BASE-T Gigabit Ethernet
- ◉ 100BASE-TX Fast Ethernet.
- ◉ 10BASE-T Ethernet.
- ◉ Voice, Video and other applications.

All the products are verified to the electrical characteristics required in the directive.

Category 6 Unshielded Keystone Jack

PART NO.	DESCRIPTION	PACKING SIZE
106121010	Premium Line Category 6 180° Unshielded Keystone Jack, Dual Type IDC, White	53.8×35.2×27 cm
171022402	Premium Line 24port High Density Unloaded Patch Panel for Unshielded Keystone Jacks, Black	50.4×24.5×25.4 cm

CATEGORY 6 CABLING SOLUTIONS

Keystone Jack
Category 6 90° Unshielded Slim Keystone Jack

Premium Line Category 6 90° unshielded slim keystone jack is the mini type of standard 90° unshielded keystone jack as its naming. All inner construction and characteristics are same as normal one.

Physical Characteristics

Housing	PC, UL94 V-0
Jack Contact	Phosphor bronze, 50µ inch gold plated over nickel
IDC Contacts	100µ inch nickel plated over phosphor bronze

Applications

- 1000BASE-TX Gigabit Ethernet.
- 1000BASE-T Gigabit Ethernet.
- 100BASE-TX Fast Ethernet.
- 10BASE-T Ethernet.
- Voice, Video and other applications.

106311010

Keystone Jack
Category 6 180° Unshielded Shutter Type Keystone Jack

Premium Line Category 6 180 ° unshielded shutter type keystone jack is ideally designed to protect jack against ingress of dirt, ease the work in field installation and future ports management. The rest is same as standard 180 ° keystone module, supports easy termination, accepts 22-26 AWG solid cables, supports T568 A&B wiring. The finish product complies with EU ROHS directive.

Physical Characteristics

Housing	PC, UL94 V-0
Jack Contact	Phosphor bronze, 50µ inch gold plated over nickel
IDC Contacts	100µ inch nickel plated over phosphor bronze

Applications

- 1000BASE-TX Gigabit Ethernet.
- 1000BASE-T Gigabit Ethernet.
- 100BASE-TX Fast Ethernet.
- 10BASE-T Ethernet.
- Voice, Video and other applications.

106721010

All the products are verified to the electrical characteristics required in the directive.

Category 6 Unshielded Keystone Jack

PART NO.	DESCRIPTION	PACKING SIZE
106311010	Premium Line Category 6 90° Unshielded Slim Keystone Jack, Dual Type IDC	42.4×35.2×24 cm
106721010	Premium Line Category 6 180° Unshielded Slim Shutter Keystone Jack	53.8×35.2×27 cm

Modular Patch Panel
High Density Unloaded Patch Panel

Premium Line unshielded compact unloaded patch panel is in dedicated design to adopt Premium Line 180° unshielded keystone jack or 90° slim keystone jack, to meet different place use intentions. Each port has sequence numbering, plastic labeling remark and above markable position, for future port identification or re-management. Main body is made of single complete steel plate, finished in 1U 19" size, suits for all standard 19" rack installation.

171022402

All the products are verified to the electrical characteristics required in the directive.

High Density Unloaded Patch Panel

PART NO.	DESCRIPTION	PACKING SIZE
171022402	Premium Line 24port High Density Unloaded Patch Panel for 180°Unshielded & 90° Unshielded Slim Keystone Jacks(P/N 109121010,106121010,106311010,106391010, 106621010,106621020,106721010,105311010,105121010, 109324010), Black	50.4×24.5×25.4 cm
195030002	Premium Line Cable Management Bar, Screw Type, Black	50.5×27.9×27 cm

Patch Panel
Category 6 1U Shielded Patch Panel

Premium Line Category 6 shielded patch panel comply with ANSI/TIA-568-C.2, ISO/IEC 11801 and EN 50173-1 Class E specifications. The complete module complies with EU RoHS directive.

The construction in standard 1U 19" size suits all 19" rack installation. The main metal frame and rear back cover are made of SECC material, with the thickness over 1.0mm. Dual type IDC accepts 22-26 AWG solid cable, easy for termination with 110 or Krone tools. The finished product is available in black or light gray RAL7035 color.
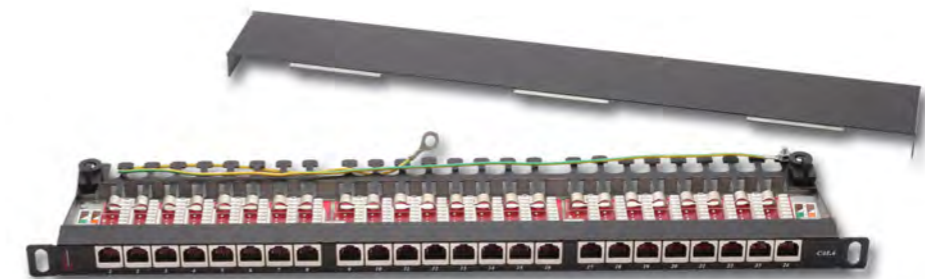
Physical Characteristics

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

Electrical Characteristics

Dielectric Strength	1000V RMS for 1min
Current Rating	1.5Amp Max.
Insulation Resistance	10MΩ Min.
Contact Resistance	2mΩ per contact
Temperature Range	-10°C to 60°C
Humidity	10%~90%; non condensing

Applications

- 1000BASE-TX Gigabit Ethernet
- 1000BASE-T Gigabit Ethernet
- 100BASE-TX Fast Ethernet
- 10BASE-T Ethernet
- Voice, Video and other applications

176212412

All the products are verified to the electrical characteristics required in the directive.
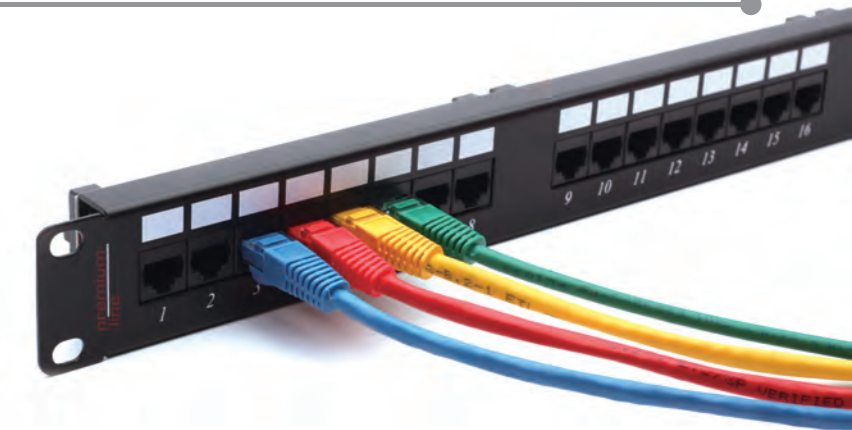
Category 6 1U Shielded Patch Panel

PART NO.	DESCRIPTION	PACKING SIZE
176212412	Premium Line Category 6 24port Shielded Patch Panel, Dual Type IDC, Black	50.5×27.9×27 cm
176212419	Premium Line Category 6 24port Shielded Patch Panel, Dual Type IDC, RAL7035	50.5×27.9×27 cm

Patch Panel
Category 6 0.5U Shielded Patch Panel

Premium Line Category 6 0.5U shielded patch panel complies with ANSI/TIA-568-C.2, ISO/IEC 11801 and EN 50173-1 Class E specifications. The complete module complies with EU RoHS directive.

The construction is in standard 19" but in 0.5U size, this is the only difference from Premium Line 1U shielded patch panel on the purpose of rack space saving. The main metal frame and rear back cover made by SECC material, with the thickness over 1.0mm. Dual type IDC accepts 22-26 AWG solid cable, easy for termination with 110 or Krone tools. The finished product available in black or light gray RAL7035 color.

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

Electrical Characteristics

Dielectric Strength	1000V RMS for 1min
Current Rating	1.5Amp Max.
Insulation Resistance	10MΩ Min.
Contact Resistance	2mΩ per contact
Temperature Range	-10°C to 60°C
Humidity	10%~90%; non condensing

Applications

- 1000BASE-TX Gigabit Ethernet
- 1000BASE-T Gigabit Ethernet
- 100BASE-TX Fast Ethernet
- 10BASE-T Ethernet
- Voice, Video and other applications

176272412

All the products are verified to the electrical characteristics required in the directive.

Category 6 0.5U Shielded Patch Panel

PART NO.	DESCRIPTION	PACKING SIZE
176272412	Premium Line Category 6 24port Shielded Patch Panel, 0.5U, Dual Type IDC, Black	50.5×27.9×27 cm
176272419	Premium Line Category 6 24port Shielded Patch Panel, 0.5U, Dual Type IDC, RAL7035	50.5×27.9×27 cm

Patch Panel
Category 6 Unshielded Patch Panel

Premium Line Category 6 unshielded patch panel complies with ANSI/TIA-568-C.2, ISO/IEC 11801 and EN 50173-1 Class E specifications. The complete module complies with EU RoHS directive.
The construction in standard 1U 19" size, suits all 19" rack installation. The main metal frame is made of SECC material, with the thickness over 1.0mm. Dual type IDC accepts 22-26 AWG solid cable, easy for termination with 110 or Krone tools. The finished product is available in 24 ports (1U).

Physical Characteristics

Jack	Phosphor bronze, 50μ inch gold plating over nickel in contact area
IDC	100μ inch nickel plated over phosphor bronze

Electrical Characteristics

Dielectric Strength	1000V RMS for 1min
Current Rating	1.5Amp Max.
Insulation Resistance	10MΩ Min.
Contact Resistance	2mΩ per contact
Temperature Range	-10°C to 60°C
Humidity	10%~90%; non condensing

Applications
◎ 1000BASE-TX Gigabit Ethernet
◎ 1000BASE-T Gigabit Ethernet
◎ 100BASE-TX Fast Ethernet
◎ 10BASE-T Ethernet
◎ Voice, Video and other applications

176122412

All the products are verified to the electrical characteristics required in the directive.

Category 6 Unshielded Patch Panel

PART NO.	DESCRIPTION	PACKING SIZE
176122412	Premium Line Category 6 24port Unshielded Patch Panel, Dual Type IDC, Black	50×24.5×25.5 cm
195000002	Premium Line Cable Management Bar, Click On Type, Black	50.5×27.9×27 cm
195030002	Premium Line Cable Management Bar, Screw Type, Black	50.5×27.9×27 cm

Patch Panel
Category 6 Labeling Holder Panel

Premium Line Category 6 labeling unshielded patch panel complies with ANSI/TIA-568-C.2, ISO/IEC 11801 and EN 50173-1 Class E specifications. The complete module complies with EU RoHS directive.

Physical Characteristics

Jack	Phosphor bronze, 50μ inch gold plating over nickel in contact area
IDC	100μ inch nickel plated over phosphor bronze

Electrical Characteristics

Dielectric Strength	1000V RMS for 1min
Current Rating	1.5Amp Max.
Insulation Resistance	10MΩ Min.
Contact Resistance	2mΩ per contact
Temperature Range	-10°C to 60°C
Humidity	10%~90%; non condensing

Applications
◎ 1000BASE-TX Gigabit Ethernet
◎ 1000BASE-T Gigabit Ethernet
◎ 100BASE-TX Fast Ethernet
◎ 10BASE-T Ethernet
◎ Voice, Video and other applications

176722412

All the products are verified to the electrical characteristics required in the directive.

Category 6 Labeling Holder Panel

PART NO.	DESCRIPTION	PACKING SIZE
176722412	Premium Line Category 6 24port Unshielded Patch Panel with Labeling Holder, Dual Type IDC, Black	50×24.5×25.5 cm

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Patch Panel
Category 6 0.5U/24 Port & 1U/48 Port Unshielded Patch Panel

Premium Line Category 6 19" high density patch panel, 24 port in 0,5U and 48 ports in 1U Size, could significantly expand your capacity by space saving in the rack! For any cross-connect rack and HC networking rack in the datacenter or TR, it's the ideal design to achieve more flexible deployment and also anytime available end subscribers' expansion. Two pieces easy click-in cable management bar at the back side is high strength affordable. The compact design saving physical space in rack and combine with its quality headroom margin performance, the panel is your ideal budget saving and competitive solution to others.

176182412

176144812

All the products are verified to the electrical characteristics required in the directive.

Category 6 0.5U/1U Unshielded Patch Panel

PART NO.	DESCRIPTION	PACKING SIZE
176182412	Permium Line Category 6 0,5U UTP Patch Panel with One Cable Management Bar, 24 Ports	52×24×36 cm
176144812	Premium Line Category 6 1U UTP Patch Panel with Two Cable Management Bars, 48 Ports	51.5×24×35 cm

Patch Cord
Category 6 S/FTP Patch Cord

Premium Line Category 6 S/FTP system patch cord is factory verified products, dedicated for datacenter and high end project use.

To realize the high performance, the cable is coming with two shielding layers. Each pair is wrapped by individual Aluminum-Mylar film, to eliminate the near end pair to pair interferences. Again an aluminum coated braiding laid over the inner structure, provides protection against outside EMI interferences.

Compliances:
- ANSI/TIA-568-C.2 Category.6
- ISO/IEC 11801 2nd Edition Class D
- CENELEC EN 50173-1 Class D
- CENELEC EN 50288
- 3P Certified Channel Performance
- Flame retardance according to IEC 60332-1-2
- RJ45 contacts 50μ inch gold plated
- Molded snag proof boot
- RoHS compliant

Applications:
Premises environment, ideal for severe electrical interference places, or along with active power devices
- 1000BASE-TX Gigabit Ethernet
- 1000BASE-T Gigabit Ethernet
- 100BASE-TX Fast Ethernet
- 10BASE-T Ethernet
- Voice, Video and other applications

AL-Mylar
Insulation
Sheath
Braid
Conductor
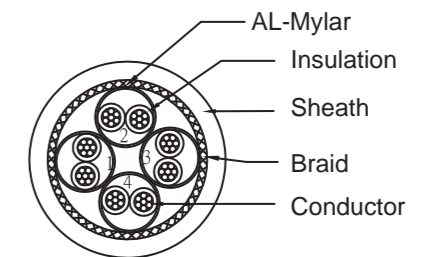
Construction

Conductor	Material / size	Bare Copper / 26 AWG
Insulation	Material	Foam-Skin PE
Inner-Shield	Aluminum-Mylar	An Aluminum Foil Screen Around Each Pair
Braid	Material	Tinned Copper
Sheath	Material	PVC / LSOH
	Diameter	5.7± 0.3 mm

Category 6 S/FTP Patch Cord, PVC

LENGTH	GREY	GREEN	BLUE	RED	Yellow
0.5 m	186410055	186410056	186410054	186410053	186410058
1 m	186410105	186410106	186410104	186410103	186410108
2 m	186410205	186410206	186410204	186410203	186410208
3 m	186410305	186410306	186410304	186410303	186410308
5 m	186410505	186410506	186410504	186410503	186410508
7 m	186410705	186410706	186410704	186410703	186410708
10 m	186411005	186411006	186411004	186411003	186411008

Other lengths, colors or halogen free cables on request

Patch Cord
Category 6 U/UTP System Patch Cord

Premium Line Category 6 U/UTP system patch cord is designed for the high end project use.
Compare to normal U/UTP patch cable, system patch cord exists a PE cross member, each pairs of whole cable retain the same stranding appearance and pitch as designed, even after transportation, cabling, wiring and management, this is the key factor to guarantee performances in various application.

Insulation

Jackting

Conductor
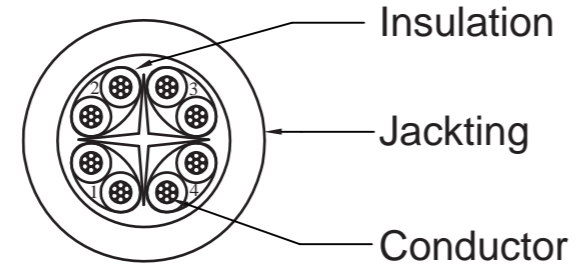
Compliances:

◎ ANSI/TIA-568-C.2

◎ ISO/IEC 11801 2nd Edition

◎ CENELEC EN 50173-1

◎ CENELEC EN 50288

◎ 100% factory tested to component level performance as
  per TIA/EIA-568-C.2 specifications

◎ Flame retardance according to IEC 60332-1-2

◎ RJ45 contacts 50μ inch gold plated

◎ Molded snag proof boot

◎ RoHS compliant

Applications:

Premises environment, option for equipment cord in

cross-connect, ideal for 4 plug-in and above applications,

◎ 1000BASE-TX Gigabit Ethernet

◎ 1000BASE-T Gigabit Ethernet

◎ 100BASE-TX Fast Ethernet

◎ 10BASE-T Ethernet

◎ Voice, Video and other applications

Construction

Conductor	Material / size	Bare Copper / 24 AWG
Insulation	Material	HDPE
Sheath	Material	PVC / LSOH
	Diameter	6.4 ± 0.2 mm

Category 6 U/UTP System Patch Cord, PVC

LENGTH	GREY	GREEN	BLUE	RED	YELLOW
0.5 m	186610055	186610056	186610054	186610053	186610058
1 m	186610105	186610106	186610104	186610103	186610108
2 m	186610205	186610206	186610204	186610203	186610208
3 m	186610305	186610306	186610304	186610303	186610308
5 m	186610505	186610506	186610504	186610503	186610508
7 m	186610705	186610706	186610704	186610703	186610708
10 m	186611005	186611006	186611004	186611003	186611008

Other lengths, colors or halogen free cables on request

Patch Cord
Category 6 U/UTP Retail Patch Cord

Premium Line Category 6 U/UTP retail patch cord supports the whole Category 6 channel transmission as per standard ANSI/TIA-568-C.2, ISO/IEC 11801 and EN 50173-1 Class E specifications.

Construction

Conductor	Material / size	Bare Copper / 24 AWG
Insulation	Material	HDPE
Sheath	Material	PVC / LSOH
	Diameter	5.8± 0.3 mm

Category 6 U/UTP Retail Patch Cord

PART NO.	DESCRIPTION
1861xyyyz	Premium Line Category.6 U/UTP Retail Patch Cord, 24AWG

"x" , 1 = PVC; 2 = LSOH "yyy" , 005 = 0.5m; 010 = 1.0m; 020 =2.0m; 030 = 3.0m; 050 = 5.0m; 070 = 7.0m; 100 = 10.0m
"z" , 3 = Red; 4 = Blue; 5 = Grey; 6 = Green; 8 = Yellow

Patch Cord
Category 6 U/UTP Slimline Patch Cord

Construction

Conductor	Material / size	Bare Copper / 30 AWG
Insulation	Material	HDPE
Sheath	Material	LSOH
	Diameter	3.1 ± 0.2 mm

Category 6 U/UTP Slimline Patch Cord

PART NO.	DESCRIPTION
18692yyyz	Premium Line Category.6 U/UTP SlimLine Patch Cord, LSOH

"yyy" , 003 = 0.3m, 005 = 0.5m, 010 = 1.0m, 020 = 2.0m
"z" , 1 = White, 2 = Black, 3 = Red, 4 = Blue, 5 = Grey, 6 = Green, 8 = Yellow

Flexible Consolidation Point Cable
Category 6 U/UTP CP Cable

Flexible consolidation point cables are popular in horizontal cabling system, its featured characteristic – Easy and Fast Deployment – is realized by professional IT staff, and it's applied in many occasions and places, like ZDA to EDA in datacenter, open office easy and quick expanding nodes, extensions in horizontal cabling and etc.

Premium Line Category 6 Giga Ethernet CP cable is 100% factory Short Link 3 Connectors Permanent Link test verified and passed.

◎ Flexible patch cable

◎ RJ45 plug to keystone jack (106721010)

◎ Optional keystone upon choice

◎ Factory terminated and tested

◎ Available length 5m, 7m, 10m, 20m

◎ Test service and results attached

Category 6 U/UTP CP Cable, PVC

Length	Grey
5m	71661050550
7 m	71661070550
10 m	71661100550
20 m	71661200550

premium line

CATEGORY 5e CABLING SOLUTIONS

With the high speed data transmission requirement in LAN, 1998 IEEE ratified standard 802.3z defined protocol 1000BASE-T over Category 5e and higher level Ethernet cabling system. After that, with the step into 21st century, Category 5e (class D) cabling took the place of Category 5 cabling, and it became the main trend in data cabling market.

As 1000BASE-T defines that the Category 5e works in full-duplex mode, uses the complete 4pairs to transceive in the meantime, then this means each pair will receive the interference from other 3pairs, as well as the ground noise. Then this requires the link and components in use must be with sufficient headroom margin.

Premium Line supplies complete Category 5e solutions and components, meeting and over standard ANSI/TIA 568-C.2, ISO/IEC 11801 ED.2, EN 50173-1, the Category 5e channel is guaranteed to fully support the corresponding protocols & communication services over 100m. Moreover, as a Germany brand, Premium Line provides you complete EU RoHS compliant solutions.

Nowadays, with expansion services over Ethernet expediting, like IP phone, IP camera, security and control systems, intelligence home systems and etc., these do expand the traditional Category 5e cabling market. Also considering the future telephone system upgrading, more and more telephone subsystems suggest using Category 5e communication cable. Bases on all these, Premium Line will always provide you adequate Category 5e solutions and warranties.

Premium Line
Category 5e Cabling Solutions

Installation Cable
Category 5e F/UTP 100MHz

Category 5e U/UTP 100MHz

Category 5e U/UTP Outdoor Gel filled

Keystone Jack
Category 5e 180°Shielded Die-Casting Keystone Jack

Category 5e 90° Shielded Keystone Jack

Category 5e 90° & 180° Unshielded Keystone Jack

Patch Panel
Category 5e Shielded Patch Panel

Category 5e Unshielded Patch Panel

Category 5e 0.5U/24 Port & 1U/48 Port Unshielded Patch Panel

Patch Cord
Category 5e F/UTP Patch Cord

Category 5e U/UTP System Patch Cord

Category 5e U/UTP Retail Patch Cord

Category 5e U/UTP Flat Patch Cord

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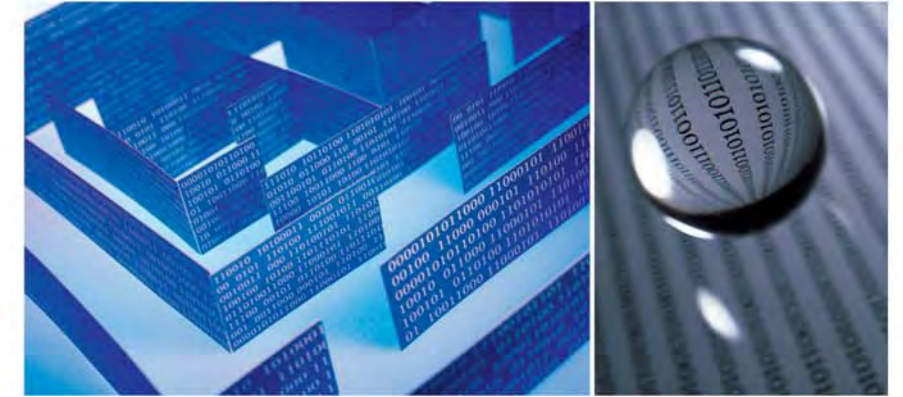
Installation Cable
Category 5e F/UTP 100MHz

Standards:

- ANSI/TIA-568-C.2
- ISO/IEC 11801 CLASS D
- CENELEC EN 50173-1
- CENELEC EN 50288
- Flame retardancy is verified according to IEC 60332-1-2.
- ETL Verified
- RoHS compliant

Application:

- 1000BASE-T Gigabit Ethernet
- 100BASE-TX Fast Ethernet
- 10BASE-T
- Voice, ISDN

205241115

- Insulation
- Conductor
- Drain wire
- Al-Mylar foil
- Sheath
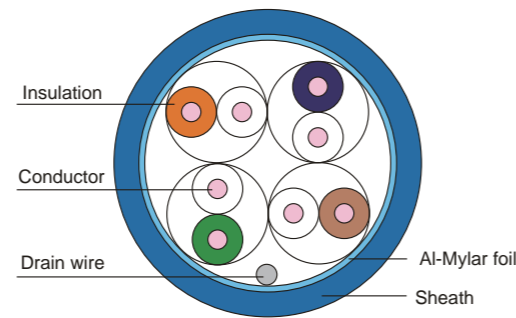
Construction

Conductor	Material / size	Bare Copper / 24AWG	
Insulation	Material	Foam-Skin PE	
Shield	Material	Al-Mylar Type	
Drain wire	Material	Stranded Tinned Copper	
Sheath	Material	PVC	LSOH
	Diameter	6.0 ± 0.3 mm	6.0 ± 0.3 mm

Mechanical & Environmental Characteristics

Bending Radius	≥ 6D, without load
	≥ 8D, with load
Operation Temperature	-20°C~+60°C
Installation Temperature	0°C~+50°C
Storage Temperature	-30°C~+60°C

Electrical Performance

Freq (MHz)	Insertion Loss (dB)		NEXT (dB/100m)		PS NEXT (dB)		ACR (dB)		PSACR (dB)		ACR-F (dB)		PSACR-F (dB)		Return Loss (dB)	
	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.
1.0	2.0	1.8	65.3	79.3	62.3	72.2	63.3	77.5	60.3	77.5	63.8	84.8	60.8	78.8	20.0	27.0
4.0	4.1	3.7	56.3	70.3	53.3	63.3	52.2	66.6	49.2	59.6	51.7	72.8	48.7	68.8	23.0	32.0
10.0	6.5	5.8	50.3	64.3	47.3	57.3	43.8	58.5	40.8	51.5	43.8	64.8	40.8	58.6	25.0	32.0
16.0	8.2	7.4	47.3	61.1	44.3	54.2	39.1	53.7	36.1	46.8	39.7	60.7	36.7	54.5	25.0	32.0
20.0	9.3	8.3	45.8	59.3	42.8	52.6	36.5	51.0	33.5	44.6	37.7	58.8	34.7	52.6	25.0	32.0
31.25	11.7	10.5	42.9	56.7	39.9	49.6	31.2	46.2	28.2	39.1	33.9	54.9	30.9	48.7	23.6	30.0
62.5	17.0	15.1	38.4	52.1	35.4	45.2	21.4	37.0	18.4	30.1	27.8	48.9	24.8	42.7	21.5	30.0
100.0	22.0	19.3	35.3	49.2	32.3	42.1	13.3	29.9	10.3	22.8	23.8	44.8	20.8	38.6	20.1	30.0

Category 5e F/UTP 100MHz

| PART NO.	DESCRIPTION	PACKING SIZE
205241115	Premium Line Category 5e F/UTP Installation Cable, 305m Box, PVC	42×42×21 cm
205242115	Premium Line Category 5e F/UTP Installation Cable, 305m Box, LSOH	42×42×21 cm

Installation Cable
Category 5e U/UTP 100MHz

Standards:

- ANSI/TIA-568-C.2
- ISO/IEC 11801 ED.2
- CENELEC EN 50173-1
- CENELEC EN 50288-3-1
- Flame retardancy is verified according to IEC 60332-1-2
- 3P Verified
- ETL Verified
- RoHS compliant

Application:

- 1000BASE-T Gigabit Ethernet
- 100BASE-TX Fast Ethernet
- 10BASE-T
- Voice, ISDN

205141115

- Insulation
- Conductor
- Sheath
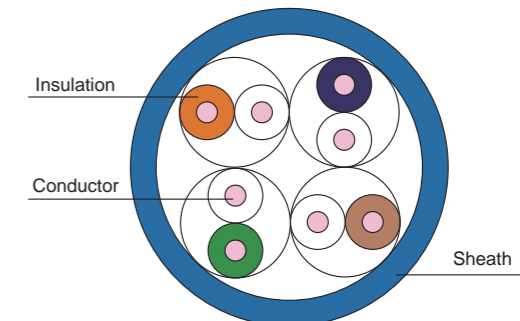
Construction

Conductor	Material / size	Bare Copper / 24AWG	
Insulation	Material	HDPE	
Sheath	Material	PVC	LSOH
	Diameter	5.2 ± 0.2 mm	5.2 ± 0.2 mm

Electrical Performance

Freq (MHz)	Insertion Loss (dB/100m)		NEXT (dB/100m)		PS NEXT (dB/100m)		ACR (dB/100m)		ACR-F (dB/100m)		PSACR-F (dB/100m)		Return Loss (dB/100m)	
	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.
1.0	2.0	1.8	65.3	77.7	62.3	75.2	63.3	75.9	63.8	69.2	60.8	68.5	20.0	40.1
4.0	4.1	3.7	56.3	68.7	53.3	66.0	52.2	65.0	51.7	57.5	48.7	57.0	23.0	40.1
10.0	6.5	6.0	50.3	60.7	47.3	58.3	43.8	54.7	43.8	49.0	40.8	48.2	25.0	37.3
16.0	8.2	7.7	47.3	56.1	44.3	53.7	39.1	48.4	39.7	45.6	36.7	43.8	25.0	36.7
20.0	9.3	8.6	45.8	55.3	42.8	52.9	36.5	46.7	37.7	43.6	34.7	42.8	25.0	36.0
31.25	11.7	10.8	42.9	52.7	39.9	50.0	31.2	41.9	33.9	40.1	30.9	39.3	23.6	32.6
62.5	17.0	15.5	38.4	48.0	35.4	45.5	21.4	32.5	27.8	34.7	24.8	33.5	21.5	31.6
100.0	22.0	19.8	35.3	44.5	32.3	42.2	13.3	24.7	23.8	30.4	20.8	29.4	20.1	31.7

Category 5e U/UTP 100MHz

PART NO.	DESCRIPTION	PACKING SIZE
205141115	Premium Line Category 5e U/UTP Installation Cable, 305m Box, PVC	35×35×21 cm
205142115	Premium Line Category 5e U/UTP Installation Cable, 305m Box, LSOH	35×35×21 cm

Keystone Jack
Category 5e 180° Shielded Die-Casting Keystone Jack

Premium Line 180 ° shielded die-casting keystone jack in special design for optimal EMI protection. Tool-less design no additional tools for termination needed, supports T568 A&B wiring. The finished product complies with EU RoHS directive.

Physical Characteristics

Body Material	Housing: PC, UL94 V-0
	Body: zinc die-casting
Jack Contact	Phosphor bronze, 50µ inch gold plated over nickel
IDC Contacts	100µ inch nickel plated over phosphor bronze

Electrical Characteristics

Dielectric Strength	1000V RMS for 1min
Current Rating	1.5Amp Max.
Insulation Resistance	10MΩ Min.
Contact Resistance	2mΩ per contact
Temperature Range	-10°C to 60°C
Humidity	10%~90%; non condensing

Applications
◎ 1000BASE-T Gigabit Ethernet
◎ 100BASE-TX Fast Ethernet.
◎ 10BASE-T Ethernet.
◎ Voice, Video and other applications.

105524010

All the products are verified to the electrical characteristics required in the directive.

Category 5e 180° Shielded Die-casting Keystone Jack

PART NO.	DESCRIPTION	PACKING SIZE
105524010	Premium Line Category 5e 180° Shielded Die-Casting Keystone Jack	42×41×38 cm
170252402	Premium Line High Density Shielded Unloaded Patch Panel with Integrated Bar	50.5×27.9×27 cm

Keystone Jack
Category 5e 90° Shielded Keystone Jack

105211010

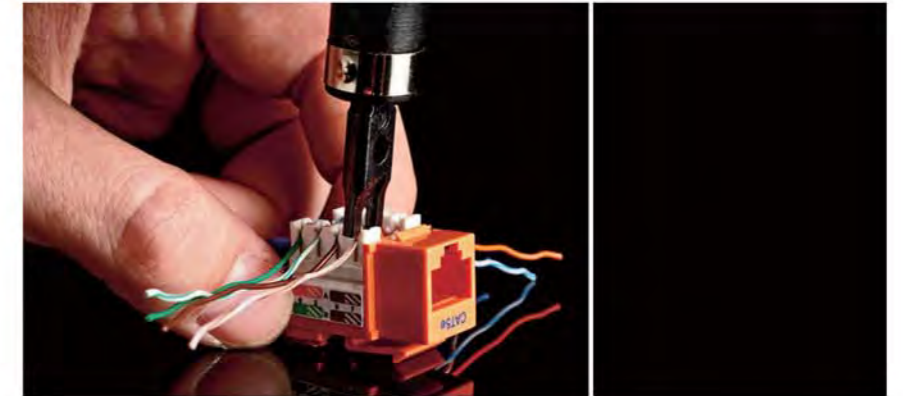All the products are verified to the electrical characteristics required in the directive.

Category 5e 90° Shielded Keystone Jack

PART NO.	DESCRIPTION	PACKING SIZE
105211010	Premium Line Category 5e 90° Shielded Keystone Jack, Dual Type IDC	53.8×35.2×27 cm

Installation Cable
Category 5e U/UTP Outdoor Gel Filled

Standards:
◎ ANSI/TIA-568-C.2
◎ ISO/IEC 11801 ED.2
◎ CENELEC EN 50173-1
◎ CENELEC EN 50288-3-1
◎ RoHS compliant

Application:
◎ 1000BASE-T Gigabit Ethernet
◎ 100BASE-TX Fast Ethernet
◎ 10BASE-T
◎ Voice, ISDN

725143112

Insulation
Gel Filling
Conductor
Sheath
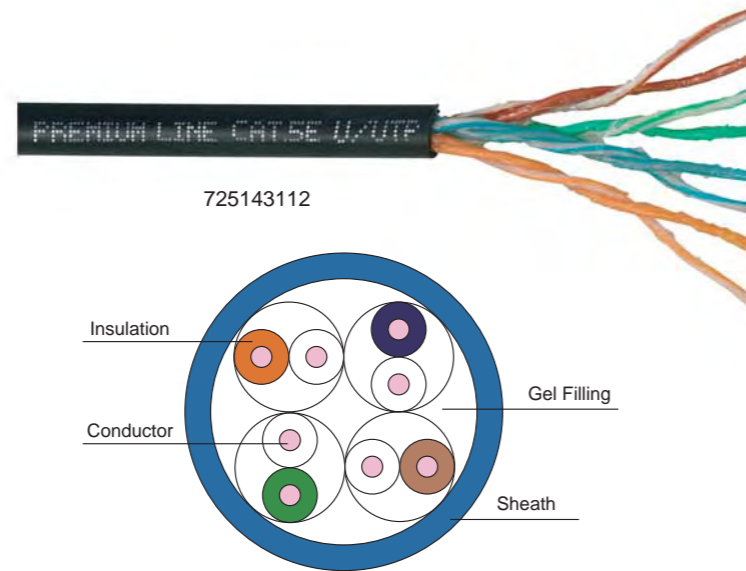
Premium Line Category 5e gel filled cable is ideal design for outdoor cabling. Each conductor is made of an-nealed 24AWG bare copper, to guarantee the conductor elongation strength. The semi-solid gel filling around each pair saves against water penetration and protects inner insulation from vile weather. The cable is finished with excellent PE out sheath to ensure it could endure all weather condition in temperature range -40°C ~60°C.

Construction

Conductor	Material / size	Bare Copper / 24AWG
Insulation	Material	HDPE
Sheath	Material	PE
Filling Gel		NUFLEX RE-4088

Mechanical & Environmental Characteristics

Bending Radius	≥ 6D, without load
	≥8D, with load
Operation Temperature	-40°C~+60°C
Installation Temperature	-10°C~+50°C
Storage Temperature	-50°C~+70°C

Electrical Performance

Freq	Insertion Loss		NEXT		PS NEXT		ACR		ACR-F		PSACR-F		Return Loss	
(MHz)	(dB)		(dB/100m)		(dB)		(dB)		(dB)		(dB)		(dB)	
	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.
1.0	2.0	1.8	65.3	77.7	62.3	75.2	63.3	75.9	63.8	69.2	60.8	68.5	20.0	40.1
4.0	4.1	3.7	56.3	68.7	53.3	66.0	52.2	64.9	51.7	57.5	48.7	57.0	23.0	40.1
10.0	6.5	6.0	50.3	60.7	47.3	58.3	43.8	54.5	43.8	49.0	40.8	48.2	25.0	37.3
16.0	8.2	7.7	47.3	56.1	44.3	53.7	39.1	48.3	39.7	45.6	36.7	43.8	25.0	36.7
20.0	9.3	8.6	45.8	55.3	42.8	52.9	36.5	46.5	37.7	43.6	34.7	42.8	25.0	36.0
31.25	11.7	10.8	42.9	52.7	39.9	50.0	31.2	41.6	33.9	40.1	30.9	39.3	23.6	32.6
62.5	17.0	15.5	38.4	48.0	35.4	45.5	21.4	32.2	27.8	34.7	24.8	33.5	21.5	31.6
100.0	22.0	19.8	35.3	44.5	32.3	42.2	13.3	24.2	23.8	30.4	20.8	29.4	20.1	31.7

Category 5e U/UTP Outdoor Gel Filled

PART NO.	DESCRIPTION	PACKING SIZE
725143112	Category 5e U/UTP Outdoor Installation Cable, Gel Filled -40°C, PE, 305m Box	35×35×21 cm

premium line

CATEGORY 5e
CABLING SOLUTIONS

www.premiumline-cabling.com

Keystone Jack
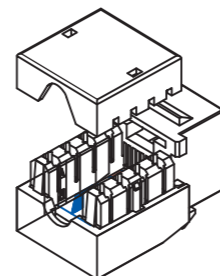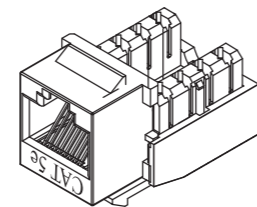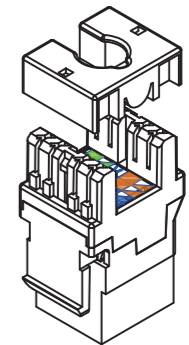### Category 5e 90° Unshielded Keystone Jack

Premium Line 90° unshielded keystone jack is in classical design, the dual type IDC accepts 22-26 AWG solid cables, easy terminated with 110 or Krone tools, supports T568 A&B wiring.
The finished product complies with EU RoHS directive. With its good & stable performance, this module earns the good sales result in the market.
All the products are verified the electrical characteristics required in the directive.

Physical Characteristics

Housing	PC, UL94 V-0
Jack Contact	Phosphor bronze, 50μ inch goldplated over nickel
IDC Contacts	100μ inch nickel plated overphosphor bronze

Electrical Characteristics

Dielectric Strength	1000V RMS for 1min
Current Rating	1.5Amp Max.
Insulation Resistance	10MΩ Min.
Contact Resistance	2mΩ per contact
Temperature Range	-10°C to 60°C
Humidity	10%~90%; non condensing

Applications
◎ 1000BASE-T Gigabit Ethernet
◎ 100BASE-TX Fast Ethernet
◎ 10BASE-T Ethernet
◎ Voice, Video and other applications

105111010

All the products are verified to the electrical characteristics required in the directive.

Category 5e 90° Unshielded Keystone Jack

PART NO.	DESCRIPTION	PACKING SIZE
105111010	Premium Line Category 5e 90° Unshielded Keystone Jack, Dual Type IDC, White	53.8×35.2×27 cm

Category 5e 90° Unshielded slim Keystone Jack

PART NO.	DESCRIPTION	PACKING SIZE
105311010	Premium Line Category 5e 90° Unshielded Slim Keystone Jack, Dual Type IDC, White	53.8×35.2×27 cm

Keystone Jack
Category 5e 180° Unshielded Keystone Jack

Premium Line 180° unshielded keystone jack is in classical design, the dual type IDC accepts 22-26 AWG solid cables, easy terminated with 110 or Krone tools, supports T568 A&B wiring.
The finished product complies with EU RoHS directive. With its good & stable performance, this module earns the good sales result in the market.
All the products are verified to the electrical characteristics required in the directive.

Physical Characteristics

Housing	PC, UL94 V-0
Jack Contact	Phosphor bronze, 50μ inch goldplated over nickel
IDC Contacts	100μ inch nickel plated overphosphor bronze

Electrical Characteristics

Dielectric Strength	1000V RMS for 1min
Current Rating	1.5Amp Max.
Insulation Resistance	10MΩ Min.
Contact Resistance	2mΩ per contact
Temperature Range	-10°C to 60°C
Humidity	10%~90%; non condensing

Applications
◎ 1000BASE-T Gigabit Ethernet
◎ 100BASE-TX Fast Ethernet
◎ 10BASE-T Ethernet
◎ Voice, Video and other applications

105121010

All the products are verified to the electrical characteristics required in the directive.

Category 5e 180° unshielded Keystone Jack

PART NO.	DESCRIPTION	Packing Size
105121010	Premium Line Category 5e 180° Unshielded Keystone Jack, Dual Type IDC, White	53.8×35.2×27 cm
171022402	Premium Line 24port High Density Unloaded Patch Panel for Unshielded Keystone Jacks, Black	50.4×24.5×25.4 cm

premium
line

Patch Panel
Category 5e Unshielded Patch Panel

Premium Line Category 5e unshielded patch panel complies with ANSI/TIA-568C.2, ISO/IEC 11801 and EN 50173-1 Class D specifications. The complete module complies with EU ROHS directive.
The construction in standard 1U 19" size, suits all 19" rack installation. The main metal frame made by SECC material, with the thickness over 1.0mm. Dual type IDC accepts 22-26 AWG solid cable, easy for termination with 110 or Krone tools. The finished product is avaiable in 24 ports (1U) .

Physical Characteristics

Jack	Phosphor bronze, 50μ inch gold plating over nickel in contact area
IDC	100μ inch nickel plated over phosphor bronze

Electrical Characteristics

Dielectric Strength	1000V RMS for 1min
Current Rating	1.5Amp Max.
Insulation Resistance	10MΩ Min.
Contact Resistance	2mΩ per contact
Temperature Range	-10°C to 60°C
Humidity	10%~90%; non condensing

Applications

◎ 1000BASE-T Gigabit Ethernet
◎ 100BASE-TX Fast Ethernet
◎ 10BASE-T Ethernet
◎ Voice, Video and other applications

175122412

175722412

All the products are verified to the electrical characteristics required in the directive.

Category 5e Unshielded Patch Panel,1U

PART NO.	DESCRIPTION	PACKING SIZE
175122412	Premium Line Category 5e 24port Unshielded Patch Panel, Dual Type IDC, Black	50×24.5×25.5 cm
175722412	Premium Line Category 5e 24port Unshielded patch panel with Labeling Holder, Dual Type IDC, Black	50×24.5×25.5 cm
195000002	Premium Line Cable Management Bar, Click On Type, Black	50.5×27.9×27 cm
195030002	Premium Line Cable Management Bar, Screw Type, Black	50.5×27.9×27 cm

Patch Panel
Category 5e Shielded Patch Panel

Premium Line Category 5e shielded patch panel complies with ANSI/TIA-568-c.2,ISO/IEC 11801 and EN50173-1 Class D specifications, The complete module complies with EU RoHS directive.
The construction in standard 1U 19" size, suits all 19" rack installation. The main metal frame and rear back cover made by SECC material, with the thickness over 1.0mm. Dual type IDC accepts 22-26 AWG solid cable, easy for termination with 110 or Krone tools. The finished product is avaiable in black or light gray RAL7035 color.

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

Electrical Characteristics

Dielectric Strength	1000V RMS for 1min
Current Rating	1.5Amp Max.
Insulation Resistance	10MΩ Min.
Contact Resistance	2mΩ per contact
Temperature Range	-10°C to 60°C
Humidity	10%~90%; non condensing

Applications

◎ 1000BASE-T Gigabit Ethernet
◎ 100BASE-TX Fast Ethernet
◎ 10BASE-T Ethernet
◎ Voice, Video and other applications

175212412

All the products are verified to the electrical characteristics required in the directive.

Category 5e Shielded Patch Panel,1U

PART NO.	DESCRIPTION	PACKING SIZE
175212412	Premium Line Category 5e 24port Shielded Patch Panel, Dual Type IDC, Black	50.5×27.9×27 cm
175212419	Premium Line Category 5e 24port Shielded Patch Panel, Dual Type IDC, RAL7035	50.5×27.9×27 cm

Patch Panel
Category 5e 0.5U/24 Port & 1U/48 Port Unshielded Patch Panel

Premium Line Category 5e 19" high density patch panel, 24 port in 0.5U and 48Ports in 1U Size, could significantly expand your capacity by space saving in the rack! For any cross-connect rack and HC networking rack in the datacenter or TR, it's the ideal design to achieve more flexible deployment and also anytime available for end subscribers' expansion. Two pieces easy click-in cable management bar at the back side is high strength affordable. The compact design saving physical space in rack and combines with its quality headroom margin performance, the panel is your ideal budget saving and competitive solution to others.

175182412

175144812

All the products are verified to the electrical characteristics required in the directive.

Category 5e 0.5U/1U Unshielded Patch Panel

PART NO.	DESCRIPTION	PACKING SIZE
175182412	Premium Line Category 5e 0.5U UTP Patch Panel with One Cable Management Bar, 24 Ports	52×24×36 cm
175144812	Premium Line Category 5e 1U UTP Patch Panel with Two Cable Management Bars, 48 Ports	51.5×24×35 cm

Patch Cord
Category 5e F/UTP Patch Cord

Premium Line Category 5e F/UTP patch cord supports the whole channel transmission as per standard ANSI/TIA-568-C.2, ISO/IEC 11801 and EN 50173-1 Class D specifications. With overall aluminum screen protection, against the environment noise also avoid signals leak. The 26 AWG stranded conductor and flexible construction is easy to bend or manage. Normally, the patch cord will be in TIA 568B wiring, TIA 568A or other wiring method upon request. The patch cord is finished with snag proof boot.

Applications

- 1000BASE-T Gigabit Ethernet
- 100BASE-TX Fast Ethernet.
- 10BASE-T Ethernet.
- Voice, Video and other applications.

Insulation
Sheath
Al-Mylar foil
Conductor
Drain Wire

Construction

Conductor	Material / size	Bare Copper / 26AWG	
Insulation	Material	Foam-Skin PE	
Inner-Shield	Aluminum-Mylar	An Aluminum Foil Screen Over All Pairs	
Drain Wire	Material	Stranded Tinned Copper	
Sheath	Material	PVC	LSOH
	Diameter	5.6± 0.3 mm	5.6 ± 0.3 mm

Category 5e F/UTP Patch Cord, PVC

LENGTH	GREY	GREEN	BLUE	RED	YELLOW
0.5 m	185210055	185210056	185210054	185210053	185210058
1 m	185210105	185210106	185210104	185210103	185210108
2 m	185210205	185210206	185210204	185210203	185210208
3 m	185210305	185210306	185210304	185210303	185210308
5 m	185210505	185210506	185210504	185210503	185210508
7 m	185210705	185210706	185210704	185210703	185210708
10 m	185211005	185211006	185211004	185211003	185211008
15 m	185211505	185211506	185211504	185211503	185211508
20 m	185212005	185212006	185212004	185212003	185212008

Other lengths, colors or halogen free on request.

CATEGORY 5e
CABLING SOLUTIONS

premium line

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Patch Cord
Category 5e U/UTP System Patch Cord

Premium Line Category 5e U/UTP system patch cord is designed for the high level project use. Compatible with the patch panel, keystone jack and installation cable, to constitute excellent channel performance. Premium Line Category 5e U/UTP system patch cord meets and over the standard ANSI/TIA-568-C.2, ISO/IEC 11801 and EN 50173-1 Class D specification.

Applications

- 1000BASE-T Gigabit Ethernet
- 100BASE-TX Fast Ethernet.
- 10BASE-T Ethernet.
- Voice, Video and other applications.

Conductor
Insulation
Sheath
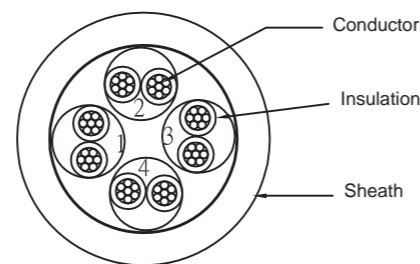
Construction

Conductor	Material / size	Bare Copper / 26AWG	
Insulation	Material	HDPE	
Sheath	Material	PVC	LSOH
	Diameter	5.3 ± 0.3 mm	5.3 ± 0.3 mm

Category 5e U/UTP System Patch Cord, PVC

LENGTH	GREY	GREEN	BLUE	RED	YELLOW
0.5 m	185110055	185110056	185110054	185110053	185110058
1 m	185110105	185110106	185110104	185110103	185110108
2 m	185110205	185110206	185110204	185110203	185110208
3 m	185110305	185110306	185110304	185110303	185110308
5 m	185110505	185110506	185110504	185110503	185110508
7 m	185110705	185110706	185110704	185110703	185110708
10 m	185111005	185111006	185111004	185111003	185111008
15 m	185111505	185111506	185111504	185111503	185111508
20 m	185112005	185112006	185112004	185112003	185112008

Other lengths, colors or halogen free on request.

Patch Cord
Category 5e U/UTP Retail Patch Cord

Premium Line Category 5e U/UTP patch cord supports the whole channel transmission as per standard ANSI/TIA-568-C.2, ISO/IEC 11801 and EN 50173-1 Class D specifications. The 26 AWG stranded CCA conductor and flexible construction is easy for bending or change. Normally, the patch cord will be in TIA 568B wiring, TIA 568A or other wiring method upon request. The patch cord is finished with snag proof boot.

Construction

Conductor	Material / size	Copper coated Aluminum / 26AWG	
Insulation	Material	HDPE	
Sheath	Material	PVC	LSOH
	Diameter	5.3 ± 0.3 mm	5.3 ± 0.3 mm

Category 5e U/UTP Retail Patch Cord, PVC

LENGTH	GREY	GREEN	BLUE	RED	YELLOW
0,5 m	185710055	185710056	185710054	185710053	185710058
1 m	185710105	185710106	185710104	185710103	185710108
2 m	185710205	185710206	185710204	185710203	185710208
3 m	185710305	185710306	185710304	185710303	185710308
5 m	185710505	185710506	185710504	185710503	185710508
7 m	185710705	185710706	185710704	185710703	185710708
10 m	185711005	185711006	185711004	185711003	185711008
15 m	185711505	185711506	185711504	185711503	185711508
20 m	185712005	185712006	185712004	185712003	185712008

Other lengths, colors or halogen free on request.

Patch Cord
Category 5e U/UTP Flat Patch Cord

Premium Line Category 5e U/UTP flat patch cord is ideal design for special network installations where space is tight. It supports Category 5e channel *short link transmission as per standard ANSI/TIA-568-C.2, ISO/IEC 11801 and EN 50173-1 Class E specifications. The 30 AWG stranded conductor and flat construction is easy for bending or change. Normally, the patch cord will be in TIA 568B wiring, TIA 568A or other wiring method upon request.

* short link, link length not over 70m

Applications

- 1000BASE-T Gigabit Ethernet
- 100BASE-TX Fast Ethernet.
- 10BASE-T Ethernet.
- Voice, Video and other applications.

Construction

Conductor	Material / size	Bare Copper / 30 AWG	
Insulation	Material	HDPE	
Sheath	Material	PVC	LSOH
	Diameter	1.6 mm × 6.8 mm	1.6 mm × 6.8 mm

Category 5e U/UTP Flat Patch Cord, PVC

LENGTH	GREY	BLACK	BLUE	RED	YELLOW
0.5 m	185510055	185510052	185510054	185510053	185510058
1 m	185510105	185510102	185510104	185510103	185510108
2 m	185510205	185510202	185510204	185510203	185510208
3 m	185510305	185510302	185510304	185510303	185510308
5 m	185510505	185510502	185510504	185510503	185510508
7 m	185510705	185510702	185510704	185510703	185510708
10 m	185511005	185511002	185511004	185511003	185511008

Other lengths, colors or halogen free cables on request
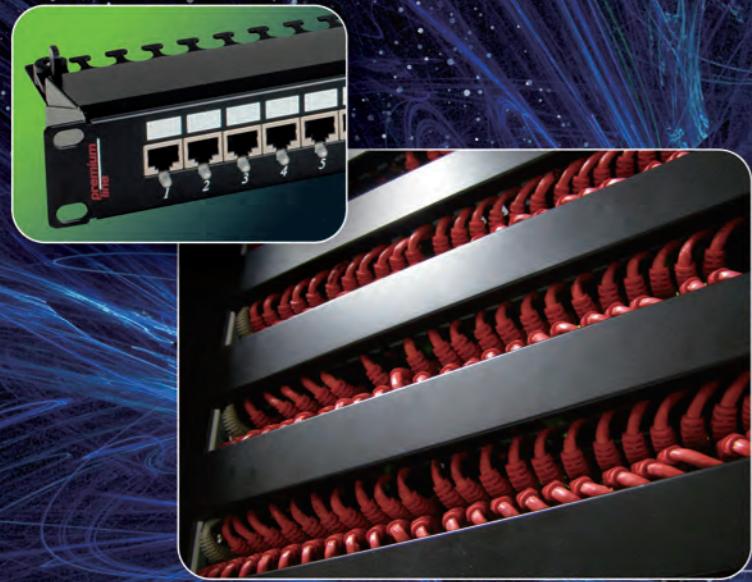
Navigator Patch System

The patented Navigator Patch System technology is embedded to a regular patch panel to keep the price reasonable. The build in LEDs allow the identification of the cable connection to the workstations quickly and accurately without interfering the network performance. Time-consuming one by one checking with hard to hear tone generators is a thing of the past. Finding the right cable for adds, moves or changes is as easy as turning on a light.

Premium Line
Navigator Patch System

Navigator Patch System

Unshielded Navigator Patch Panel

90° Unshielded Navigator Keystone Jack

Transmitter

High Efficiency
The horizontal cable installation and patch cord connection are the most time-consuming processes. With Navigator patch panel, operators don't have to check the complicated drawing and label patch cords and panels. Navigator patch panel can greatly improve the installation efficiency.

Debugging
You can find out the failure by LED display simply, don't need to check the drawing. To maintain the cabling system become easily.

Security
Random port installation and no labeling are helpful to Information security management. Comply with BS 7799 or ISO 27001 standard.

Choice of Wise
There is no competitive product to the Navigator Patch System. The difference makes you win the project.

Economical Solution
1. Saving the installation time and labor cost
2. No need dedicated staff to operate
3. Visualized LED indication, easily problem determination
4. NO additional cost for software, device or system upgrade
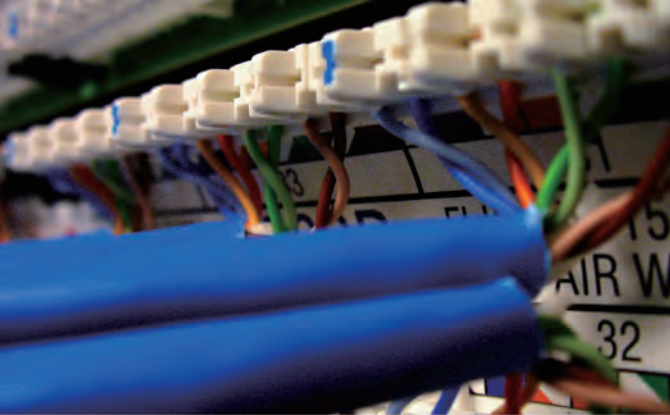
premium
line

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Navigator Patch System
Unshielded Navigator Patch Panel

Navigator Patch System

Using tone generators you may be forced to separate bundled cables due to weak signal. The Navigator Patch System keeps your cabinet neat. Simply connect the signal transmitter to the outlet to find the opposite position at the patch panel.

LED Red light on:
Outlet connected to the network equipment

LED Green light on:
Outlet is not connected to the network equipment.

LED light off:
No connection between patch panel and outlet on pair 3-6.

Switch HUB

Patch Panel

Installation Cable

Outlet   Signal Transmitter

Features

1. Performance conforms to ANSI/TIA-568-C.2, ISO/IEC 11801 and EN 50173-1 Category 5e and 6 specifications.
2. Supports T568 A&B Wiring & easy installation.
3. Terminate using 110 or Krone tools.
4. Backward compatible to Category 5e, 5, and 3.
5. IDC connector can accept 22-26 AWG solid and stranded cables.

Approval

◎ ETL verified to ANSI/TIA-568-B.2-1 Permanent Link.
◎ ETL verified channel to ANSI/TIA-568-B.2 Category 5e.

Application

◎ 1000BASE-TX Gigabit Ethernet
◎ 100BASE-TX Fast Ethernet
◎ 10BASE-TX Ethernet
◎ Voice, Video and other application

175522412

Unshielded Navigator Patch Panel

PART NO.	DESCRIPTION
175522412	Premium Line Category 5e Unshielded Navigator Patch Panel, Dual Type IDC, 24 Ports, Black
176522422	Premium Line Category 6 Unshielded Navigator Patch Panel, Krone Type IDC, 24 ports, Black

106393010

90° Unshielded Navigator Keystone Jack

PART NO.	DESCRIPTION	PACKING SIZE
106393010	Premium Line Category 6 90° Unshielded Navigator Keystone Jack, 110 Type IDC, White	53.8×35.2×27 cm
105393010	Premium Line Category 5e 90° Unshielded Navigator Keystone Jack, 110 Type IDC, White	53.8×35.2×27 cm

194800000

Transmitter

PART NO.	DESCRIPTION
194800000	Premium Line Signal Transmitter for Navigator Patch Panel

Navigator Patch System

![premium line logo]

VOICE & OUTLETS PRODUCT SERIES

Premium Line voice product series mainly focus on classical voice cabling, including multipair cables- available for indoor backbone cabling & outdoor campus cabling, And also the data & voice outlets are aimed to furnish an enjoyable subscriber node with popular design and its cosmetic, standard RJ45 Category 3 voice and data patch panels, patch cords and installation cables, to constitute a complete voice cabling solution.

Premium Line
Voice & Outlets Product Series

Multipair Cable
Category 3 & 5 U/UTP Indoor Multipair Cable
Category 3 U/UTP Outdoor Gel Filled Multipair Cable

Patch Panel
Category 3 Unshielded Patch Panel

Keystone Jack
Category 3 90°Unshielded Keystone Jack,6P4C

Faceplate
86 Type Faceplate Series
70 Type Faceplate Series

Multipair Cables
Premium Line mainly supplies Category 3 and Category 5 multipair cables, normally core number could be 5pairs, 10pairs, 25pairs, 50pairs, 100pairs, including both indoor and outdoor gel filled type, for indoor backbone use and campus cabling application.

All multipair cables meet or exceed ANSI/TIA/EIA 568A, ISO/IEC 11801, EN 50173 specification.

ISDN Patch panels
Standard RJ45 jack, and 19" 1U/2U size, provides 25ports/50ports options, suit for rack installation.

Data & Voice Outlets
Apart from the cabling solutions, Premium Line various types faceplate in popular design is aimed to furnish all your cabling nodes and subscriber outlets

premium line

All Premium Line Category 3 UTP multi-pairs installation cable meet or exceed ANSI/TIA 568-C.2, ISO/IEC 11801, EN 50173 specification. This range of unscreened cables is designed to support Category 3 Link and Channel performance, with internationally defined Physical and Electrical performance up to 16MHz. all cables comply with RoHS.

Multipair Cable
Category 3 U/UTP Indoor Multipair Cable

203191225

Sheath / Pet Tape / Insulation / Copper / Pair

Sheath / Pet Tape / Insulation / Copper / ID Tape / Pair

Sheath / Pet Tape / Insulation / ID Tape / Copper / Pair
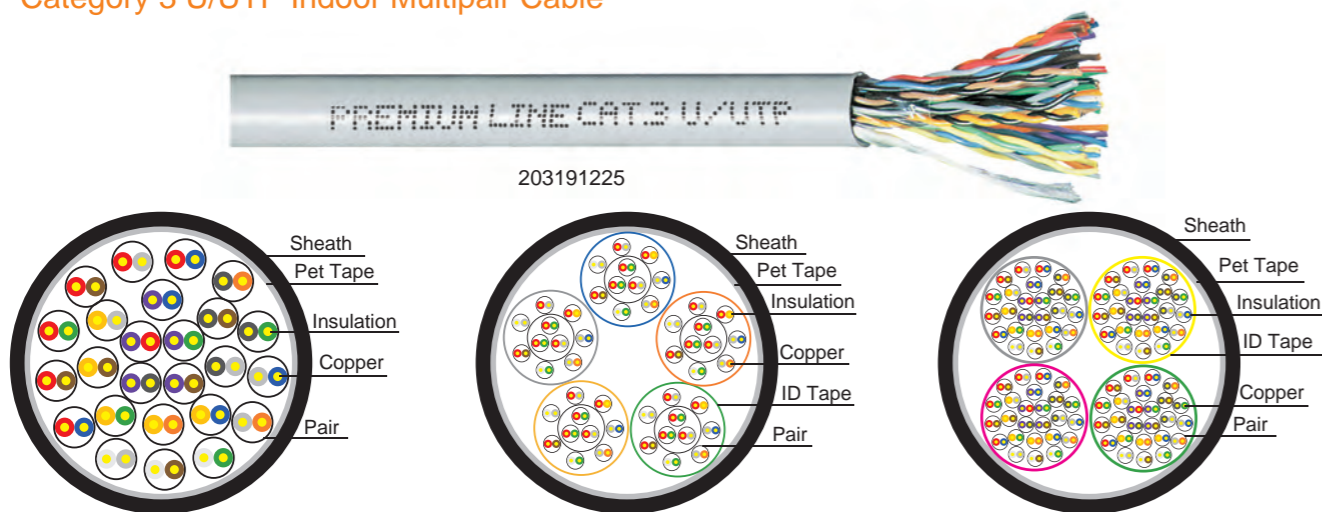
Construction

Conductor	24 AWG Soft Plain Copper			
Insulation	Polyethylene with Color Marking on Primary Cores for Ease Identification			
Sheath	PVC			
	5 Pairs	25 Pairs	50 Pairs	100 Pairs
	8.0±1.0mm	11.5±1.0mm	15.0±2.0mm	25.0±2.0mm

Electrical Performance

Transmission Frequency (MHz)	1	4	8	10	16
NEXT dB/100m	41.3	32.3	27.8	26.3	23.3
Characteristic Impedance	100±15				
Attenuation dB/100m	2.6	5.6	8.5	9.7	13.1
Structural Return Loss dB/100m	12	12	12	12	9.95
Nominal Velocity of Propagation	>65%				

Mechanical & Environmental Characteristics

Bending Radius	≥ 10D, without load
	≥15D, with load
Operation Temperature	-20°C~+60°C
Installation Temperature	0°C~+50°C
Storage Temperature	-30°C~+60°C

Category 3 U/UTP Indoor Multipair Cable

PART NO.	DESCRIPTION
203161225	Premium Line Category 3 U/UTP Multipair Cable, 5 Pairs, 500m Reel, PVC
203181225	Premium Line Category 3 U/UTP Multipair Cable, 25 Pairs, 500m Reel, PVC
203191225	Premium Line Category 3 U/UTP Multipair Cable, 50 Pairs, 500m Reel, PVC
203111225	Premium Line Category 3 U/UTP Multipair Cable, 100 Pairs, 500m Reel, PVC

Category 5 U/UTP Indoor Multipair Cable

PART NO.	DESCRIPTION
201181225	Premium Line Category 5 U/UTP Multipair Cable, 25 Pairs, 500m Reel, PVC
201191225	Premium Line Category 5 U/UTP Multipair Cable, 50 Pairs, 500m Reel, PVC

Multipair Cable
Category 3 U/UTP Outdoor Gel Filled Multipair cable
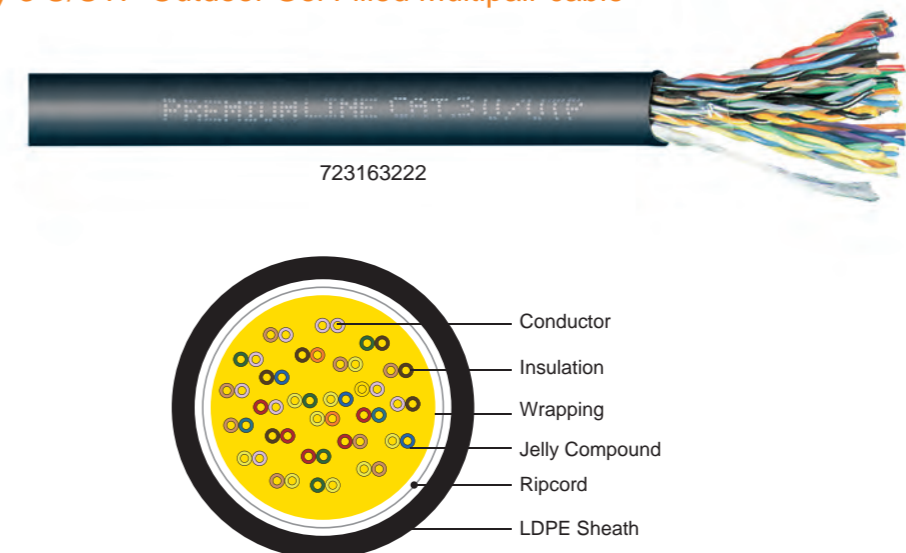
723163222

Conductor / Insulation / Wrapping / Jelly Compound / Ripcord / LDPE Sheath

Mechanical & Environmental Characteristics

Bending Radius	≥ 10D, without load
	≥15D, with load
Operation Temperature	-40°C~+60°C
Storage Temperature	-50°C~+70°C
Installation Temperature	-30°C~+50°C

Construction

Conductor	0.50±0.005MM Plain copper conductor			
Insulation	HDPE with Color Marking on Primary Cores for Ease Identification			
Filling Compound	Petroleum Jelly Filled Compound			
Sheath	LDPE			
	Nominal size	25 Pair	50 Pair	100 Pair
		13.8	18.2	23.5
Additional Components	Overall Cable Wrapped with PP Tape			

Category 3 U/UTP Outdoor Gel Filled Multipair Cable

PART NO.	DESCRIPTION
723163222	Premium Line Category 3 U/UTP Multipair Cable, 25 Pairs, Outdoor Gel Filled, 500m Reel, PE
723183222	Premium Line Category 3 U/UTP Multipair Cable, 50 Pairs, Outdoor Gel Filled, 500m Reel, PE
723193222	Premium Line Category 3 U/UTP Multipair Cable, 100 Pairs, Outdoor Gel Filled, 500m Reel, PE

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Faceplate
86 Type Faceplate Series

Features:

◎ Secures to any surface, drywall, baseboard, and even modular furniture

◎ 100% compatible with standard wall(face) plates

◎ Keystone jacks can be snapped in and out easily

◎ Comes in models to accommodate 1/2/3/4 inserts and shuttered dust cover

◎ Comes with hidden mounting screws and clear outlet ID labels

◎ Apply UL-94V-0 high-impact, fire-retardant ABS resin

121122210   121111210

121212210   121221210

86 Type Faceplate Series

PART NO.	DESCRIPTION
121111210	Premium Line Euro II Face Plate, Right-angle, 45°Entry, 86×86,Snap-In, w/-Shutter, 1-Port, White
121112210	Premium Line Euro II Face Plate, Right-angle, 45°Entry, 86×86,Snap-In, w/-Shutter, 2-Port, White
121121210	Premium Line Euro II Face Plate, Right-angle, 90°Entry, 86×86,Snap-In, w/-Shutter, 1-Port, White
121122210	Premium Line Euro II Face Plate, Right-angle, 90°Entry, 86×86,Snap-In, w/-Shutter, 2-Port, White
121314210	Premium Line Euro II Face Plate, Right-angle, 45°Entry, 86×146,Snap-In, w/-Shutter, 4-Port, White
121324210	Premium Line Euro II Face Plate, Right-angle, 90°Entry, 86×146,Snap-In, w/-Shutter, 4-Port, White
121211210	Premium Line Euro III Face Plate, Bevel, 45°Entry, 86×86, Snap-In, w/-Shutter,1-Port, White
121212210	Premium Line Euro III Face Plate, Bevel, 45°Entry, 86×86, Snap-In, w/-Shutter,2-Port, White
121221210	Premium Line Euro III Face Plate, Bevel, 90°Entry, 86×86, Snap-In, w/-Shutter,1-Port, White
121222210	Premium Line Euro III Face Plate, Bevel, 90°Entry, 86×86, Snap-In, w/-Shutter,2-Port, White
121414210	Premium Line Euro III Face Plate, Bevel, 45°Entry, 86×146, Snap-In, w/-Shutter,4-Port, White
121424210	Premium Line Euro III Face Plate, Bevel, 90°Entry, 86×146, Snap-In, w/-Shutter,4-Port, White

Faceplate
70 Type Faceplate Series

121822010   121823010   121721110   121722110

70 Type Faceplate Series

PART NO.	DESCRIPTION
121820010	Premium Line USA III Blank Face Plate, 70×115, White
121821010	Premium Line USA III Face Plate, 90°Entry, 70×115,Integral Molding,w/o Icon, 1-Port, White
121822010	Premium Line USA III Face Plate, 90°Entry, 70×115,Integral Molding,w/o Icon, 2-Port, White
121823010	Premium Line USA III Face Plate, 90°Entry, 70×115,Integral Molding,w/o Icon, 3-Port, White
121824010	Premium Line USA III Face Plate, 90°Entry, 70×115,Integral Molding,w/o Icon, 4-Port, White
121826010	Premium Line USA III Face Plate, 90°Entry, 70×115,Integral Molding,w/o Icon, 6-Port, White
121721110	Premium Line USA Face Plate, 90° Entry, Integral Molding, Shutter Type w/icon, 1-Port, White
121722110	Premium Line USA Face Plate, 90° Entry, Integral Molding, Shutter Type w/icon, 2-Port, White

Faceplate
Faceplate German Style

Premium Line shutter type faceplate is in standard German style, finished in 80×80 size.
Available to provide RAL9010 and RAL1013 color for option. And also the compatible back box with same color is on your request.

123312090

Faceplate German Style

PART NO.	DESCRIPTION
123212090	2-Port 45° Faceplate for Keystone with Shutter, 80×80 mm, RAL 9010
123212080	2-Port 45° Faceplate for Keystone with Shutter, 80×80 mm, RAL 1013
123312090	3-Port 45° Faceplate for Keystone with Shutter, 80×80 mm, RAL 9010
123312080	3-Port 45° Faceplate for Keystone with Shutter, 80×80 mm, RAL 1013
112003090	Wall Mounted Back Box 80×80×40 mm, Color RAL 9010
112003080	Wall Mounted Back Box 80×80×40 mm, Color RAL 1013

112003080

Patch Panel
Category 3 Unshielded Patch Panel

Premium Line Category 3 unshielded patch panel complies with ANSI/TIA 568C.2, ISO/IEC 11801, EN 50173 specifications. The complete module complies with EU RoHS directive.

The construction in standard 1U 19" size, suits all 19" rack installation. The main metal frame and rear back cover made by SECC material, with the thickness over 1.0mm. 4P4C terminal block for 25 ports, and 8P8C for 50 ports type. The finished product is available in black or light gray RAL7035 color.

Physical Characteristics:

◎ Jack: Phosphor bronze, 3μ inch gold plating over nickel in contact area

◎ IDC : 30μ inch phosphor bronze or tin plated over nickel

Application:

◎ 10BASE-T Ethernet

◎ Supports all voice systems
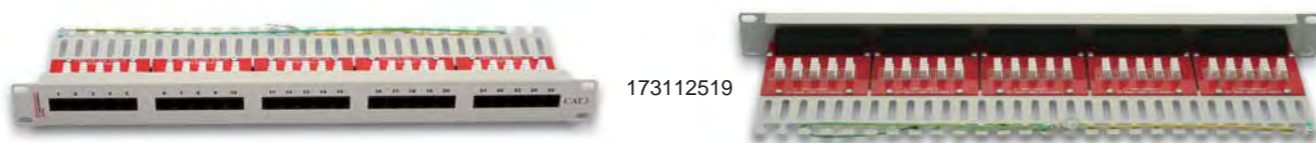
173112519

Category 3 Unshielded Patch Panel

PART NO.	DESCRIPTION	Packing Size
173112519	Premium Line ISDN (Category 3) 90 ° Unshielded Patch Panel, Dual Type IDC, 25 Ports, RAL7035	50.5×27.9×27 cm
173115019	Premium Line ISDN (Category 3) 90 ° Unshielded Patch Panel, Dual Type IDC, 50 Ports, RAL7035	50.5×27.9×27 cm
173112512	Premium Line ISDN (Category 3) 90 ° Unshielded Patch Panel, Dual Type IDC, 25 Ports, Black	50.5×27.9×27 cm
173115012	Premium Line ISDN (Category 3) 90 ° Unshielded Patch Panel, Dual Type IDC, 50 Ports, Black	50.5×27.9×27 cm

Keystone Jack
Category 3 90°Unshielded Keystone Jack,6P4C

Features:

◎ Supports ISDN, 10 Base-T and any other voice applications

◎ Supports USOC wiring method & easy installation

◎ Offers total solution of your Local Area Networking

◎ Dual IDC connector can accept 23-26 AWG solid cables

◎ Using 110 or Krone tools for termination

103111010

Category 3 90°unshielded keystone jack

PART NO.	DESCRIPTION	PACKING SIZE
103111010	Premium Line ISDN (Category 3) 90°unshielded keystone jack, dual type IDC, 6P4C, White	52.5x33.6x25.5CM

Data Center Server Cabinet

As a core part of the entire cabling system, cabinet are widely used and also take an irreplaceable role in the equipment room. Nowadays cabinet not only has the simple function of storing devices but also can provide protection, electromagnetic interference shielding, and arrange equipment orderly to facilitate future maintenance.

Premium Line provides a complete cabinet solution including the server cabinets, wall mount cabinets, cable management units & mounting accessories, also with active power supply devices, like power distribution unit, uninterruptible power supply and etc.

Network Server Cabinet

Premium Line 19'' server cabinets and wall mount cabinets meet the international standards ANSI /EIARS-310-C19, ANSI /EIARS-310-D, IEC 297-3, IEC 529 and DIN 40050.

Premium Line server cabinets are available in standard 19" , 600 × 800, 800 × 800 sizes, but not limit in this two options of size. We mainly supply the 27U, 32U, 37U, 42U types. The front door is available in high strength toughened glass or perforated metal. The complete cabinet is made by excellent steels available to afford maximum 800kg static loading.

Normally, the fixed accessories include cage nuts, castors and leveling feet. And there also exists various optional accessories for your most economical combinations, including fixed shelf, keyboard tray, front blank panel and cable managements, besides, all free standing cabinets are available for 4 fans installation, and also with required power cords.

Wall Mount Cabinet

Premium Line wall mount cabinets are mostly popular in single section or dual section design, to afford maximum 60kg static loading. It's available in size 19" 600 × 450, 6U, 9U, 12U, 15U and 18U. The wall mount cabinets are in key lockable design, and come with front glass door. All wall mount cabinets are available for 2 cooling fans installation. Normally, the wall mount cabinets are pre-assembled for shipping.

Power Distribution Unit

Premium Line provides worldwide various type power outlets and power cords. Normally it's in standard 1U height suit for standard 19" cabinet installation. Premium Line standard PDU comes with lighted master switch, but, the additional function like surge protection, current display is available as well, the size will change to 1.5U.

The left end single input and frontal installation design is easy for future management and allocation.

Premium Line
Data Center Server Cabinet

Aisle Containment
Enhanced Network Sever Cabinet
Network Server Cabinet
Wall Mount Cabinet
Wall Mount Cabinet (Dual Section)
Wall Mount Cabinet (Single Section)

Blank Panel & Accessory
19" Toolless Mounting Metal Blank Panel
19" Blank Panel
19" Cable Management, Dust Proof Brush Type
Wheel Feet for Network Server Cabinet
Adjustable Fixed Feet for Cabinet
Cage Nut for Cabinet

Fan Unit & Shelf
Cooling Fan
19" Fixed Shelf for Cabinet
19" Sliding Shelf for Cabinet

Cable Management
Power Distribution Unit
European Type
American Type
UK Type
Surge Protection

premium
line

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Aisle Containment

Features:

◎ The Aisle Containment System is a modular row-based thermal containment solution, which separates cold and hot datacenter air streams to and from equipment. It manages airflow at the source, increases the cooling efficiency and significantly lowers down operating costs.

◎Row level thermal containment improves cooling efficiency and predictability to address zones and complete data center deployments.

◎Most parts of the aisle containment components are modular, which allows quick deployment on site and addresses changing needs or future expansion with pay-as-you grow architecture.

◎The aisle containment is adaptable for enhanced network server cabinet (61586xyy2 or 61588xyy2)

◎Provides the right combination of safety and security, dual mechanical doors or sliding doors are available options.

◎Designed and built to provide high level security solutions for computer rooms, server rooms, and co-location data centers.

Dual Mechanical Doors   ***Dual Sliding Doors***

Dual doors detailed list		
S/N	Description	Qty
1	Left Door	2pcs
2	Right Door	2pcs
3	Left door column	2pcs
4	Right door column	2pcs
5,6	Side decoration panel (Height: 200mm)	4pcs
7	Top panel for door (Height: 200mm)	2pcs
Fixed top roof detailed list		
S/N	Description	Qty
8	Supporting panel for roof (Height: 200mm)	2pcs for a top roof
9	Top roof (Material:4mm toughened glass)	1pcs
10	External decoration panel	1pcs for a cabinet
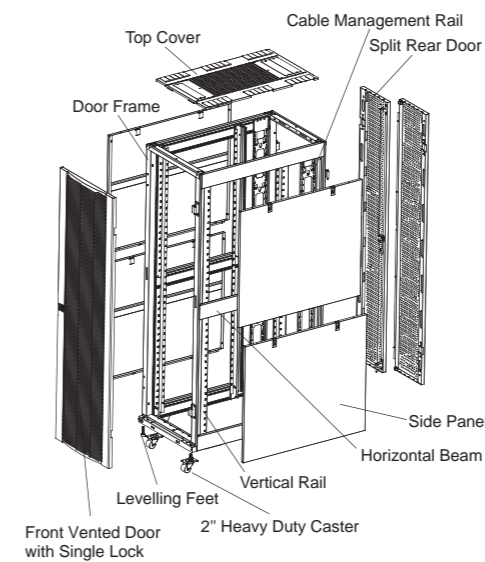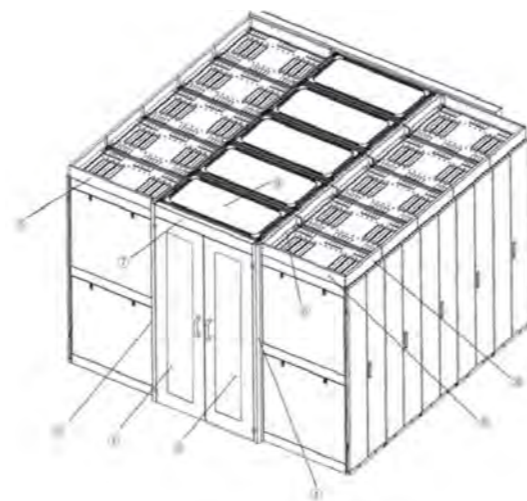
END AISLE DOORS

PART NO.	DESCRIPTION
619291002	Dual mechanical doors, with TCP/IP door access locking system Material: 5mm toughened glass
619191002	Dual sliding doors, full-automatic mode, with TCP/IP door access locking system Material: 8mm toughened glass

TOP ROOF

PART NO.	DESCRIPTION
619360002	600(W) rotary top roof, external decoration panel and fixed plate Material:4mm toughened glass
619380002	800(W) rotary top roof, external decoration panel and fixed plate Material:4mm toughened glass

Enhanced Network Sever Cabinet

Features:

◎ connected by four corner to ensure the stability

◎ curved perforated front door and rear dual perforated door enable reliable operation with ventilation rate up to 78%

◎ double-section side panel can be easily assembled separately

◎ up to 1500 kgs static loading capacity with adjustable feet

◎ "U" mark mounting rail for clear and easy identification

◎ 4pcs of M12 adjustable feet and 4pcs of heavy duty castors included

◎ 40sets M6 cage nuts included

◎ optional Fan unit (6 fans and 2m single input power cord for 800mm depth and above)

Standard:

◎ Compliant with ANSI/EIA RS-310-D, IEC297-2, DIN41491. Part1, Part7, DIN 4144 standards

Material:

◎ Frame: SPCC cold rolled steel   ◎ Others: SPCC cold rolled steel

◎ Thickness: Frame and mounting vertical rail: 2.0mm

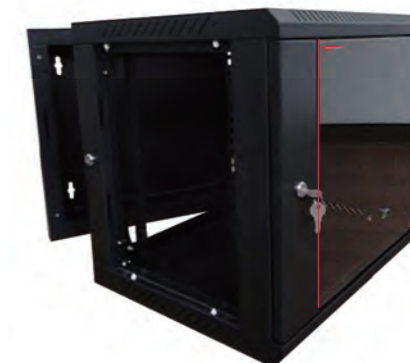◎ Horizontal bracket: 2.0mm, Side door: 1.2mm   ◎ Others: 1.5mm

615883482

Enhanced Network Server Cabinet

Type	Dimensions (mm)			Part No.
	Width	Depth	Height	
42U	800	870	1992	615888422
42U	800	1070	1992	615881422
42U	800	1200	1992	615883422
48U	800	870	2259	615888482
48U	800	1070	2259	615881482
48U	800	1200	2259	615883482

RAL7035 color upon request

Network Sever Cabinet

Features:
◎ connected by four corner to ensure the stability
◎ cable entry from the top cover and bottom panel
◎ removable side doors for easy installation and maintenance
◎ 4 pcs of M12 adjustable feet and 4 pcs of 2" heavy duty castors included
◎ 40 sets M6 cage nuts included (below 32U 20 sets)
◎ 1 pair of vertical cable management included for 800mm depth cabinet
◎ up to 800 kgs static loading capacity with adjustable feet toughened glass or perforated front door is available upon request,
with metallic rear door or perforated door, or perforated front door with dual perforated door
◎ optional Fan unit (4 fans and 2m single input power cord for 800mm depth cabinet and above)
◎ standard "S" type vertical rail ("L" type vertical rail on request)

Standard:
◎ Comply with ANSI/EIA RS-310-D, IEC297-2, DIN41491.Part1, part7, DIN 4144

Material:
◎ Frame: SPCC cold rolled steel　　　　　　　　◎ Others: SPCC cold rolled steel
◎ Thickness: Frame and vertical mounting rail: 2.0mm
◎ Horizontal bracket: 1.5mm, side door: 1.2mm　　◎ Others: 1.2mm

Rear door
Top cover
Front door
Side panel
Horizontal beam
Door frame
Vertical rail
Bottom panel
Caster(2 with brake)　Levelling feet

612268422

Network Sever Cabinet

Type	Dimensions (mm)			Part No.
	Width	Depth	Height	
27U	600	800	1388	612x68272
32U	600	800	1610	612x68322
37U	600	800	1833	612x68372
42U	600	800	2055	612x68422
47U	600	870	2277	612x68472

x=1 stands for perforated metal front door ; x=2 stands for glass front door; RAL7035 color upon request

Wall Mount Cabinet
Dual Section

Premium Line double section is really suitable for server rooms, audio rooms, wiring closets, manufacturing areas, warehouses, or anywhere where heavy networking equipment needs to be protected and maintained usually.
Pick up and slot in back holes ensure convenient and quick wall mounting.

Features:
◎ Cable entry from top and bottom
◎ Top cover ready for cooling fan installation
◎ 60 kg static loading capacity
◎ Toughened glass front door with over 180° angle
◎ Lockable side door easy to open for installation
◎ Fixed 100mm back section space

Top cover
Rear swing frame
614264092
Vertical rail
Front door
Frame
Bottom panel
Horizontal bracket
Side panel
L-shaped bracket
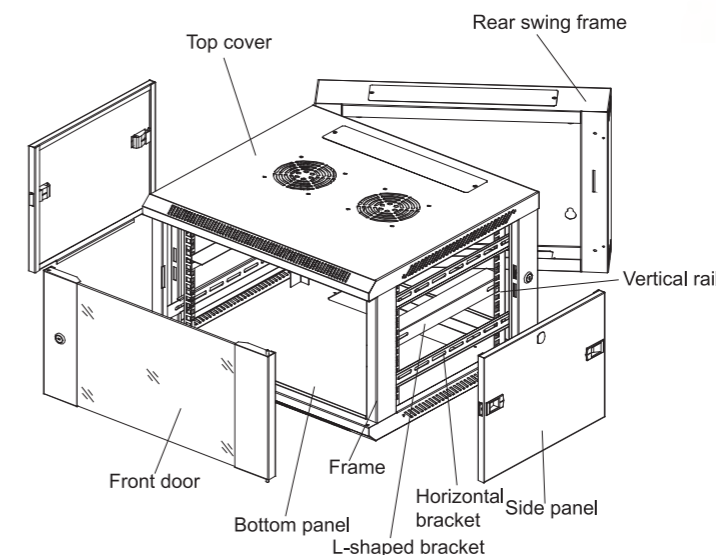
Wall Mount Cabinet (Dual Section)

Type	Dimensions (mm)			Weight (kg)	Part No.
	Width	Depth	Height		
6U	600	450+100	370	19	614264062
9U	600	450+100	500	25	614264092
12U	600	450+100	635	30	614264122
15U	600	450+100	770	32	614264152
18U	600	450+100	905	38	614264182

Other type or RAL 7035 color upon request

Wall Mount Cabinet
Single Section

Designed to house rack mount equipment for cabling, telecommunications, IT, industrial and home installations,
Premium Line Wall Mount Cabinet is supplied flat-packed, which eases access to the installation site while reducing logistics costs and providing greater protection during transit.

Features:
◎ Cable entry from top and bottom
◎ Top cover ready for cooling fan installation
◎ 60 kg static loading capacity
◎ Toughened glass front door with over 180° angle

611264062

Top cover
Mounting bracket
Rear panel
Side panel
Front door
Frame
Bottom panel
Vertical rail
Horizontal bracket
L-shaped bracket
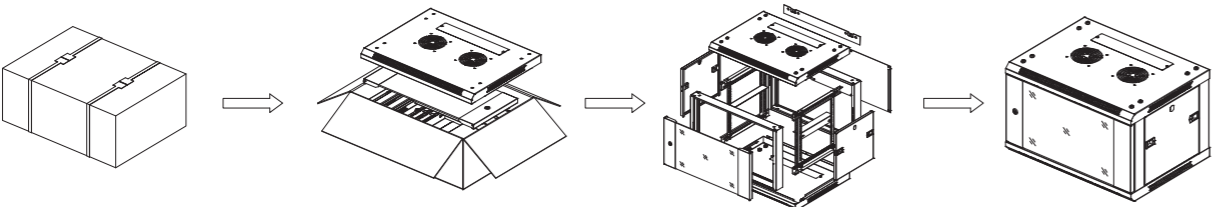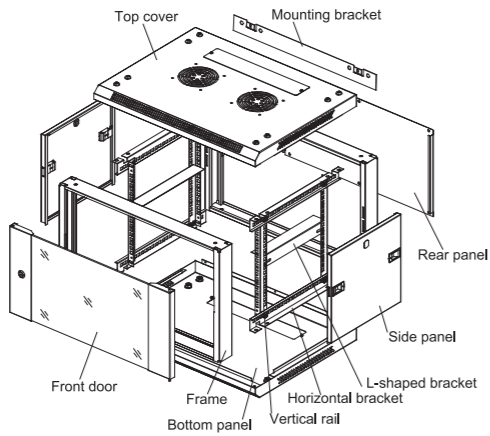
Wall Mount Cabinet (Single Section)

Type	Dimensions (mm)			Weight (kg)	Part No.
	Width	Depth	Height		
6U	600	450	370	16	611264062
9U	600	450	500	23	611264092
12U	600	450	635	27	611264122
15U	600	450	770	29	611264152
18U	600	450	905	36	611264182

Other type or RAL 7035 color upon request

Blank Panel & Accessory

195140102
195040102
195080102

Blank Panel

PART NO.	DESCRIPTION
195140102	Premium Line 1U 19" Toolless Mounting Metal blank panel, black
195140202	Premium Line 2U 19" Toolless Mounting Metal blank panel, black
195140402	Premium Line 4U 19" Toolless Mounting Metal blank panel, black
195040102	Premium Line 1U 19" blank panel, black
195040202	Premium Line 2U 19" blank panel, black
195040402	Premium Line 4U 19" blank panel, black
195080102	Premium Line 1U 19" cable management, dust proof brush type, black

196000050
622000000
623000000

Accessory

PART NO.	DESCRIPTION
622000000	Wheel Feet for Network Server Cabinet
623000000	Adjustable Fixed Feet for Cabinet
196000050	Cage Nut for Cabinet, 50 sets/bag

Data Center Server Cabinet
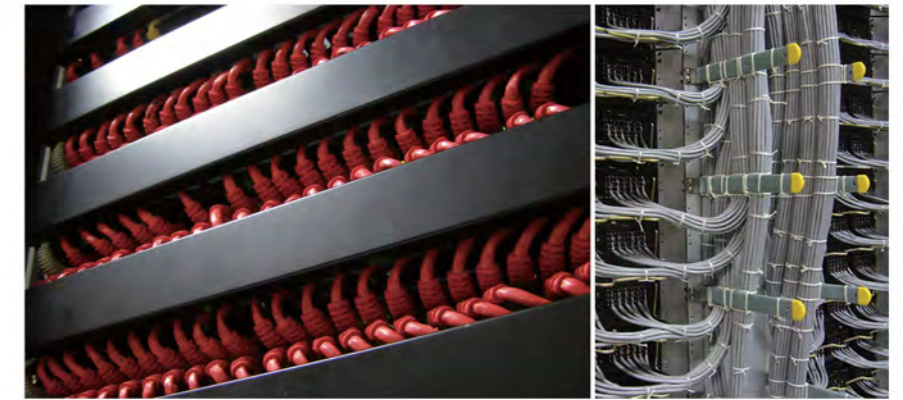
Fan Unit & Shelf
Digital Temperature Unit

This unit is mainly used for temperature control and highest temperature limit alarm in the cabinets, which has the characteristics of high reliability, simply to use and easily to operate. Meanwhile, it also can show the values of current Voltage, Ampere, Temperature and humidity. Including a 2m power line. Its operating environment is -5℃ ~60℃, the relative humidity is 20%~85% (Non-condensation).

Without fans	With 2 fans	With 4 fans

Digital Temperature Unit

PART NO.	DESCRIPTION
6270x0y02	Premium Line 1U 19" digital temperature unit for cabinet, black
*x, plug	1: European type(Germany) 2: UK type 3: US type
*y, fan number	0: without fans 2: with 2 fans 4: with 4 fans

624400002

623400002

620018402

Fan Unit & Shelf

PART NO.	DESCRIPTION
620018402	Fan Unit for 800mm depth, 4 fans, German type, Black
624200002	19" Fixed Shelf for 800mm depth server cabinet with mounting ear, RAL9005
624300002	19" Fixed Shelf for 1000mm depth server cabinet with mounting ear, RAL9005
624400002	19" Fixed Shelf for 1200mm depth server cabinet with mounting ear, RAL9005
623200002	19" Sliding Shelf for 800mm depth server cabinet with mounting ear, RAL9005
623300002	19" Sliding Shelf for 1000mm depth server cabinet with mounting ear, RAL9005
623400002	19" Fixed Shelf for 1200mm depth server cabinet with mounting ear, RAL9005
*Grey color on request for fixed shelf	

Cable Management

195010102

195110102

Cable Management

PART NO.	DESCRIPTION
195010102	Premium Line 1U 19" Cable Management, Duct Type, Black
195010202	Premium Line 2U 19" Cable Management, Duct Type, Black
195110102	Premium Line 1U 19" Cable Management, Duct Type, Fully Plastic, Black
195110202	Premium Line 2U 19" Cable Management, Duct Type, Fully Plastic, Black

195070102

195020142

195020102
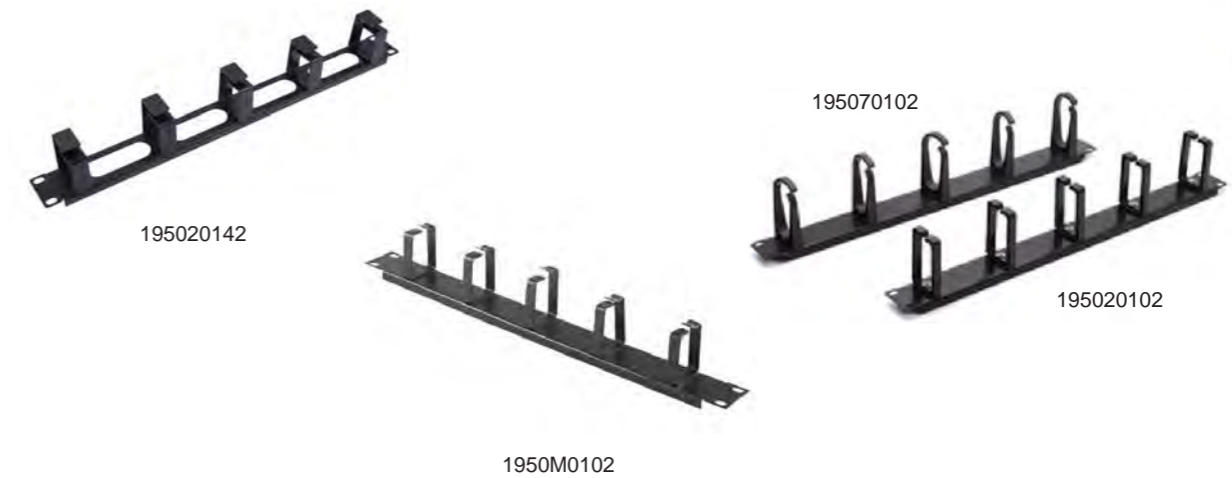
1950M0102

Cable Management

PART NO.	DESCRIPTION
195020142	Premium Line 1U 19" Cable Management, Plastic Holder Type, Black
1950M0102	Premium Line 1U 19" Cable Management, Metal Holder Type, Black
195020102	Premium Line 1U 19" Cable Management, Plastic Holder Type, Black
195070102	Premium Line 1U 19" Cable Management, Ellips Plastic Holder Type, Black

Data Center Server Cabinet

Power Distribution Unit
European Type

Features:

◦ Conform to DIN49440 and DIN49441

◦ single input at left side

◦ Maximum 16A 250V AC current capacity, 3.5KW

◦ Lighted master switch

◦ 1U, frontal installation for standard 19" cabinets

◦ 2m power cord, other length upon request

◦ Color: aluminum or plastic frame in black

◦ RoHS compliant

631210812

Power Distribution Unit
American Type

Features:

◦ IEC60906 two-pole socket-outlets with grounding contact

◦ single input at left side

◦ Maximum 10A 110V AC current capacity, 2.5KW

◦ Lighted master switch

◦ 1U, frontal installation for standard 19" cabinets◦ 2m power cord,
  other length upon request

◦ Color: aluminum or plastic frame in black

◦ RoHS compliant

633230812

Power Distribution Unit
UK Type

Features:

◦ BS1363 standard UK socket and plug

◦ Maximum 13A 230V AC current capacity, 3KW

◦ Lighted master switch

◦ Standard 1U 6 output and 1.5U 6 output with surge protect

◦ 2m power cord, other length upon request

◦ Color: aluminum or plastic frame in black

◦ RoHS compliant

632220612

Power Distribution Unit
Surge Protector Type

Features:

◦ Available in European, UK & UL types

◦ Standard 1.5U mounting size,aluminum frame

◦ Dimension:482.6 × 66.67 × 62mm

◦ Optional lighted master switch

◦ 2m power cord, other length upon request

◦ Other type PDU upon request

◦ RoHS compliant

631810712

Power Distribution Unit

PART NO.	DESCRIPTION
631210812	Premium Line Power Distribution Unit with Aluminium Body, European Type, 8 Outlets
631210822	Premium Line Power Distribution Unit with Non-metallic Body, European Type, 8 Outlets
632220612	Premium Line Power Distribution Unit with Aluminium Body, UK Type, 6 Outlets
632220622	Premium Line Power Distribution Unit with Non-metallic Body, UK Type, 6 Outlets
633230812	Premium Line Power Distribution Unit with Aluminium Body, UL Type, 8 Outlets
633230822	Premium Line Power Distribution Unit with Non-metallic Body, UL Type, 8 Outlets
631710612	Premium Line Power Distribution Unit with Aluminium Body, European Type ,6 Outlets with Surge Protector, with LED Switch
631810712	Premium Line Power Distribution Unit with Aluminium Body, European Type ,7 Outlets with Surge Protector, without LED Switch
632720612	Premium Line Power Distribution Unit with Aluminum Body, UK Type, 6 Outlets with Surge Protector, with LED Switch
632820612	Premium Line Power Distribution Unit with Aluminum Body, UK Type, 6 Outlets with Surge Protector, without LED Switch
633730712	Premium Line Power Distribution Unit with Aluminum Body, UL Type, 7 Outlets with Surge Protector, with LED Switch
633830712	Premium Line Power Distribution Unit with Aluminum Body, UL Type, 7 Outlets with Surge Protector, without LED Switch

Fiber Optic Solution

Since over 30 years ago first fiber optic data cable have been installed and applied, now, with the improvement of fiber optic technique and also considering competitive costs of the complete range of optic devices, our Fiber Optic Solution surely fulfills the high speed data network and telecommunication requirements.

Optic Fiber- Made by the most common substance, silicon dioxide (SiO_2), in complete core diameter 9um - single mode, 62.5um - OM1, 50um – OM2/OM3/OM4, and with 125um refraction cladding, to afford light signal transmission supports long distance and high speed data network & telecommunication.

Technology- To use the light to transmit the signals from one place to another place over optic fiber, is due to the light propagates through the fiber with little attenuation also immune to electromagnetic interference. These advantages also contribute to fiber optic development and practical application.

Wide Area Network- Single mode fiber optic cables are increasingly used for long distance telecommunication & data network, so called classical WAN – wide area network. The fiber optic cable normally could be placed in outdoor conduits or directly aerial installation.
Premium Line WAN fiber optic system provides two installation types and customizes various cable constructions on your special requirements like ADSS- recommended, if electrical shock might happen; Figure 8 outdoor aerial cable best for extreme weather conditions like heavy wind or ice. Premium Line also provides outdoor accessories like splice closures, available for aerial, direct ground buried and duct installation purpose.

Local Area Network- In most classical premise cabling, SM or MM fiber optic cables are more used as backbone cabling, They convert the optical signals to electrical signals to the end subscriber through the corresponding copper communication cables. LAN cables also will be used for distances over 100 meters, which are not available for copper cables.
Regarding to the pure fiber optic cabling system, with the PON- passive optical network system develop, like IEEE E-PON, ITU G-PON, the one point to multipoint network. Also the extension base on above systems and protocol comes with FTTX applications which depend on the ONU location. Premium Line LAN fiber optic systems provides different type cables to fulfill these fiber optic solutions, especially the FTTH cable series, with customer's choice on normal G652D fibers, or G657A low bending loss fiber for complex corner-bending situation. Premium Line is capable to provide you all types' high quality and reliable fiber optic cables.

Component- Premium Line solution includes a full range of optic devices, fiber optic cables, and also the accessories like pigtails, patch cords, adapters and different type's terminal boxes. Premium Line has complete ranges of these components with low attenuation loss control, combines with fiber optic cables, support the complete channel with good headroom margin.

Premium Line
Fiber Optic Solution

Optic Fiber
Single-mode Optic Fiber
Multimode Optic Fiber

Wide Area Network
ADSS Fiber Optic Cable, 9/125um G652D
Figure 8 Aerial Armored Multi-tube
Outdoor Parallel Steel Wires & Steel Armored Uni-tube Fiber Optic Cable
Outdoor Steel Armored Multi-tube Fiber Optic Cable
Outdoor Steel Armored Double Sheath Multi-tube Fiber Optic Cable
Fiber Optic Dome Type Splice Enclosure
Fiber Optic Inline Type Splice Enclosure

Local Area Network
Access Building Cable with Glass Yarn Strength Member
Access Building Cable with Glass Yarn and Steel Tape Strength Member
Indoor Tight Buffer Distribution Fiber Optic Cable
19" Fiber Optic Patch Panel
Fully Loaded Adapter Plate
19" Rack Mounted ODF
Wall Mount Box
Fiber Optic Patch Panel, MTP/MPO to LC
Copper & Fiber, Hybrid Patch Panel
FO High Density Patch Panel

Connectivity
Fiber Optic MTP Trunk Cable
Fiber Optic Patch Cord
Fiber Optic Pigtail
12 Pack Pigtail
Adapter
Field Assembly Connector

Fiber Optic Adapter Support Module
FTTX
FTTH Distribution Cable
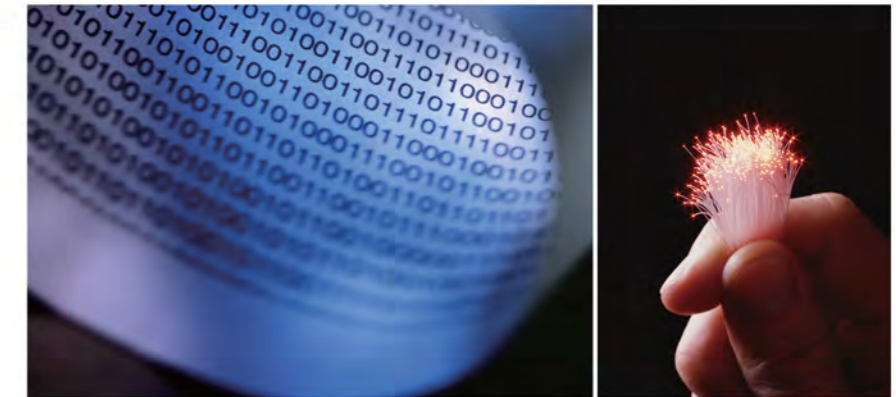FTTH Distribution Box
FTTH Cable
FTTD Wall Box
Fiber Optic Faceplate
Preterminated Fiber Optic Cable

Optic Fiber
Single-mode Optic Fiber

Optical Characteristics			G652D	G657
Attenuation	@1310 nm		≤0.35 dB/KM	≤0.35 dB/KM
	@1383 nm		≤0.35 dB/KM (After H$_2$ aging)	≤0.35 dB/KM (After H$_2$ aging)
	@1550 nm		≤0.22 dB/KM	≤0.21dB/KM
	@1625 nm		≤0.24 dB/KM	≤0.23 dB/KM
Attenuation vs.Wavelength	@1310 nm	1285~1330 nm	≤0.03 dB/KM	≤0.03 dB/KM
	@1550 nm	1525~1375 nm	≤0.02 dB/KM	≤0.02 dB/KM
Dispersion Coefficient	1530~1565 nm		-	-
	1565~1625 nm		-	-
	1285~1340 nm		-3.0~3.0 ps/(nm.km)	-
	@1550 nm		≤18 ps/(nm.km)	≤18 ps/(nm.km)
	@1625 nm		≤22 ps/(nm.km)	≤22 ps/(nm.km)
Zero Dispersion Wavelength			1302~1322 nm.km	1300~1324 nm.km
Zero Dispersion Slope			≤0.090 ps/(nm².km)	≤0.092 ps/(nm².km)
Zero Dispersion Slope (Typical)			≤0.086 ps/(nm².km)	-
Polarization Mode Dispersion	Maximum Individual Fiber		≤0.2 ps/√km	≤0.2 ps/√km
	Design Link (Value M=20.0=0.01%)		≤0.1 ps/√km	≤0.1 ps/√km
Cable Cut-off Wavelength			≤1260 nm	≤1260 nm
Mode Field Diameter	@1310 nm		9.2±0.4 μm	8.8±0.4 μm
	@1550 nm		10.4±0.5 μm	9.8±0.5 μm
Group Index of Refraction (Typical)	@1310 nm		1.466	1.466
	@1550 nm		1.467	1.467
Geometrical Characteristics				
Cladding Diameter			124.8±0.7 μm	124.8±0.7 μm
Cladding Non-Circularity			≤0.7%	≤0.7%
Coating Diameter			245±5 μm	245±5 μm
Coating/Cladding Concentricity Error			≤12.0 μm	≤12.0 μm
Coating Non-Circularity			≤6.0%	≤6.0%
Core/Cladding Concentricity Error			≤0.5 μm	≤0.5 μm
Curl (Radius)			≥4 m	≥4 m
Environmental Characteristics (@1310 nm/@1550 nm)				
Attenuation at Temperature cycling △ α (-60°C~+85°C)			≤0.05 dB/km	≤0.05 dB/km
Attenuation at Temperature-Humidity Cycling (-10°C~+85°C, 98% R.H.)			≤0.05 dB/km	≤0.05 dB/km
Attenuation at Damp Heat Dependence (85°C, 98% R.H., 30 days)			≤0.05 dB/km	≤0.05 dB/km
Attenuation at Watersoak Dependence (23°C, 30 days)			≤0.05 dB/km	≤0.05 dB/km
Mechanical Characteristics				
Proof Test (Off Line)			≥9.0 N (≥100 kpsi)	≥9.0 N (≥100 kpsi)
Attention at Bending Dependence	1 Turn, 7.5 mm Radius		-	≤0.5 dB
	1Turn, 10 mm Radius		-	≤0.1 dB
	1Turn, 15 mm Radius		-	≤0.03 dB
	1Turn, 25 mm Radius		≤0.05 dB	-
Coating Strip Force (Typical)			1.7 N	1.7 N
Dynamics Stress Corrosion Susceptibility Parameter (Nd, Typical)			≥20	≥20

Optic Fiber
Multimode Optic Fiber

Optical Characteristics		OM1	OM2	OM3	OM4
Attenuation	@ 850 nm	≤3.0 dB/KM	≤3.0 dB/KM	≤2.8 dB/KM	≤2.8 dB/KM
	@1300 nm	≤0.8 dB/KM	≤0.8 dB/KM	≤0.7 dB/KM	≤0.7 dB/KM
Bandwidth	@ 850 nm	≥200 Mhz.KM	≥200 Mhz.KM	≥1500 MHz.KM@LED ≥2000 MHz.KM@laser	≥3500 MHz.KM@LED ≥4700 MHz.KM@laser
	@1300 nm	≥600 Mhz.KM	≥500 Mhz.KM	≥500 Mhz.KM	≥550 Mhz.KM
10Gb/s Ethernet Link Distance (10GBASE-SR)	@ 850 nm	33 M	82 M	300 M	550 M
Zero Dispersion Wavelength		1320~1365 nm	1295~1320 nm	1295~1320 nm	1295~1320 nm
Group Index of Refraction (Typical)	@850 nm	1.496	1.482	1.482	1.482
	@1300 nm	1.491	1.477	1.477	1.477
Geometrical Characteristics					
Core Diameter		62.5±2.5 μm	50±2.5 μm	50±2.5 μm	50±2.5 μm
Cladding Diameter		124.8±1.0 μm	124.8±1.0 μm	124.8±1.0 μm	124.8±1.0 μm
Cladding Non-Circularity		≤1.0%	≤1.0%	≤1.0%	≤1.0%
Coating Diameter		245±7 μm	245±7 μm	245±7 μm	245±7 μm
Coating/Cladding Concentricity Error		≤12.0 μm	≤12.0 μm	≤12.0 μm	≤12.0 μm
Coating Non-Circularity		≤6.0%	≤6.0%	≤6.0%	≤6.0%
Core/Cladding Concentricity Error		≤1.5 μm	≤1.5 μm	≤1.0 μm	≤1.0 μm
Environmental Characteristics (@850 nm/@1300 nm)					
Attenuation at Temperature cycling △ α (-60°C~+85°C)		≤0.10 dB/km	≤0.10 dB/km	≤0.10 dB/km	≤0.10 dB/km
Attenuation at Temperature-Humidity Cycling (-10°C~+85°C, 98% R.H.)		≤0.10 dB/km	≤0.10 dB/km	≤0.10 dB/km	≤0.10 dB/km
Attenuation at Damp Heat Dependence (85°C, 98% R.H., 30 days)		≤0.10 dB/km	≤0.10 dB/km	≤0.10 dB/km	≤0.10 dB/km
Attenuation at Watersoak Dependence (23°C, 30 days)		≤0.10 dB/km	≤0.10 dB/km	≤0.10 dB/km	≤0.10 dB/km
Mechanical Characteristics					
Proof Test (Off Line)		≥9.0 N (≥100 kpsi)	≥9.0 N (≥100 kpsi)	≥9.0 N (≥100 kpsi)	≥9.0 N (≥100 kpsi)
Macrobend Loss (100 Turn, 25mm Radius)	850 nm	≤0.05 dB	≤0.05 dB	≤0.05 dB	≤0.05 dB
	1300 nm	≤0.05 dB	≤0.05 dB	≤0.05 dB	≤0.05 dB
Coating Strip Force (Typical)		1.5 N	1.5 N	1.5 N	1.5 N
Dynamics Stress Corrosion Susceptibility Parameter(Nd, Typical)		≥27	≥27	≥27	≥27

Fiber Optic Solution

Wide Area Network
Outdoor Parallel Steel Wires & Steel Armored Uni-tube Fiber Optic Cable

Two parallel steel wires construction cable suits for aerial installation. With additional corrugated steel tape protection make it also available for duct installation.
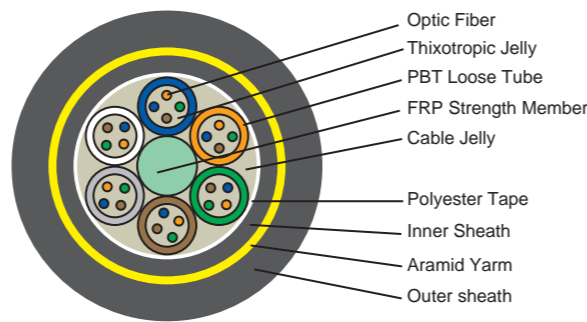
Wide Area Network
ADSS Fiber Optic Cable, 9/125um G652D

Customized Fiber Optic Cable

Premium Line dedicated fiber optic technical team capable to design various telecom systems cables for you base on requirements or provided location climate information where intend to use.

All Dielectric Self Supporting Fiber Optic Cable

This kind of cable more often be installed on overhead power lines, gantries or poles, its' all dielectric construction protect it against electric shock impact or damage.

Normally, you can provide us the local climate information also the electrical field strength to design it accordingly.

Labels (cable diagram):
- Optic Fiber
- Thixotropic Jelly
- PBT Loose Tube
- FRP Strength Member
- Cable Jelly
- Polyester Tape
- Inner Sheath
- Aramid Yarm
- Outer sheath

Labels (right cable diagram):
- Outer sheath
- Corrugate Steel Tape
- Waterproof Tape
- Steel Wire
- Fiber Optic
- Jelly Compound
- Loose Tube

Cable Physical / Environmental Performance	
Maximum Span	100 meters
Cable Sag (%)	1.0%
Temperature Range	-20 °C to +70 °C
Worst Environmental Conditions	100 kms/hr wind speed (No Ice)

Cable Characteristics	
Maximum Working Tension (No Fiber Strain)	4.12 kN (420 kgs)
Estimated Tensile Strength	10.3 kN (1050 kgs)
Thermal Coefficient of Expansion	20.83×10^{-6} °C
Area of Aramid	4.5 mm²
Approx. Cable Weight	120 kgs/km
Cable Diameter	12.2 mm
Radial Thickness of Sheath	1.5 mm
Minimum Bending Radius	Dynamic 700 mm, Static 350 mm
Crush Resistance	2000 N/10 cm
Water Penetration	No water penetration of the cable core, on a 3 meter sample, with a 1 meter head of water applied for 24 hours
Outer Sheath Materia	HDPE (non anti-tracking)
Max. Electrical Field Strength	≤ 12 kV/m tested according to IEEE P1222

Environmental Condition and Cable Loads, Sags, etc.

Condition	Temp	Wind km/hr	Cable Load kgs	% UTS	Sag (mtrs) Vert	Sag (mtrs) Plane	Blow Out Angle	Cable Elong %
EDS	25	-	150	14%	1	1	0	0.212
Low Temp, No Wind	0	-	184	18%	0.81	0.81	0	0.203
High Temp, No Wind	70	-	113	11%	1.33	1.33	0	0.233
Low Temp, Wind	0	100	294	28%	0.51	2.55	78.4	0.358
EDS Temp, Wind	25	100	273	26%	0.55	2.74	78.4	0.386
High Temp, Wind	70	100	279	24%	0.6	3	78.4	0.426

ADSS Fiber Optic Cable, 9/125um G652D, PE

Number of Fibers	12	24	48	72	96	144
Part No.	260223012	260223024	260223048	260223072	260223096	260223144

Structure & Environmental Characteristics

Loose Tube	Material	PBT
Peripheral Strength Member	Material	Steel Wire
	Diameter	1.0 mm
Wrapping	Material	Waterproof Tape
Moisture Barrier	Material	Corrugated Steel Tape
Sheath	Material / Color	PE/black
Installation Temperature		-40°C ~ +70°C
Operation Temperature		-40°C ~ +70°C
Storage/Transport Temperature		-40°C ~ +70°C

Mechanical Characteristics

Fiber Count	Outside Diameter (mm)	Cable Weight (kg/km)	Tensile Load Short Term (N)	Tensile Load Long Term (N)	Crush Load Short Term (N)	Crush Load Long Term (N)	Bend Radius Static (mm)	Bend Radius Dynamic (mm)
4	8.7	82	1500	600	1000	300	10D	20D
6	8.7	82	1500	600	1000	300	10D	20D
8	8.7	85	1500	600	1000	300	10D	20D
12	8.7	90	1500	600	1000	300	10D	20D
24	9.8	131	1500	600	1000	300	10D	20D

Outdoor Parallel Steel Wires & Steel Armored Uni-tube Fiber Optic Cable, PE

Number of Fibers	9/125	50/125	62.5/125	50/125(OM3)	50/125(OM4)
4	267123004	267133004	267113004	267143004	267193004
6	267123006	267133006	267113006	267143006	267193006
8	267123008	267133008	267113008	267143008	267193008
12	267123012	267133012	267113012	267143012	267193012
24	267123024	267133024	267113024	267143024	267193024

LSOH is available upon request

www.premiumline-cabling.com

Wide Area Network
Outdoor Steel Armored Multi-tube Fiber Optic Cable

Install the fiber optic cable inside of existed conduits, this need excellent tensile strength also additional corrugated steel tape armored against rodent. This kind of fiber optic cable is also available for campus cabling.
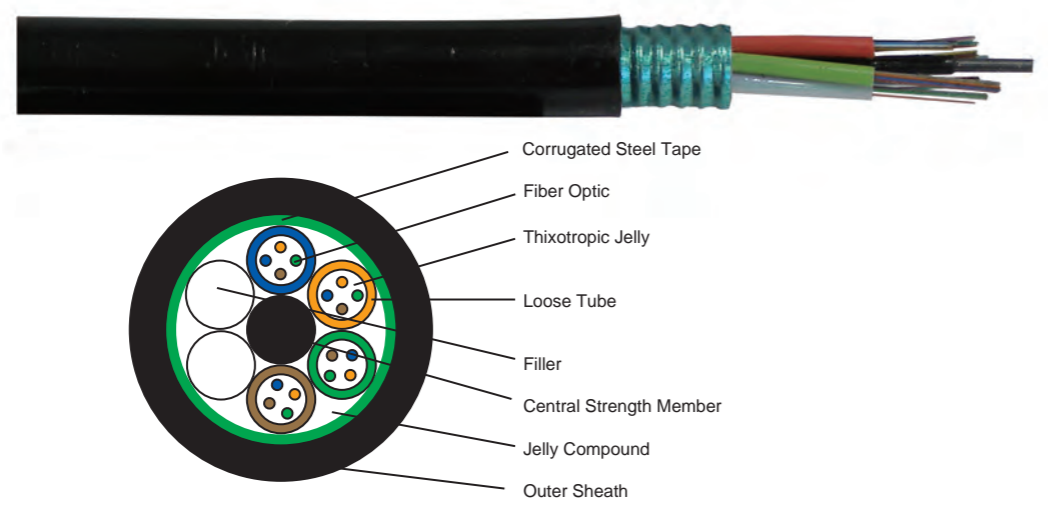
- Corrugated Steel Tape
- Fiber Optic
- Thixotropic Jelly
- Loose Tube
- Filler
- Central Strength Member
- Jelly Compound
- Outer Sheath

Structure & Environmental Characteristics

Loose Tube	Material	PBT
Strength Member	Material	Steel Wire
	Material	Corrugated Steel Tape
Moisture Barrier	Material	Jelly Compound
Sheath	Material / Color	PE/black
Installation Temperature		-40°C ~ +70°C
Operation Temperature		-40°C ~ +70°C
Storage/Transport Temperature		-40°C ~ +70°C

Mechanical Characteristics

Fiber Count	Outside Diameter (mm)	Cable Weight (kg/km)	Tensile Load		Crush Load		Bend Radius	
			Short Term (N)	Long Term (N)	Short Term (N)	Long Term (N)	Static (mm)	Dynamic (mm)
4	9.2	103	1500	600	1000	300	10D	20D
8	9.2	103	1500	600	1000	300	10D	20D
12	9.2	103	1500	600	1000	300	10D	20D
24	9.2	103	1500	600	1000	300	10D	20D
72	11.0	146	1500	600	1000	300	10D	20D
144	15.5	248	1500	600	1000	300	10D	20D

Compliant Standard:ITU-T G651 / ITU-T G652 D, ANSI/TIA-D.3, IEC-794

Outdoor Steel Armored Multi-tube Fiber Optic Cable, PE

Number of Fibers	9/125	50/125	62.5/125	50/125(OM3)	50/125(OM4)
4	265223004	265233004	265213004	265243004	265293004
8	265223008	265233008	265213008	265243008	265293008
12	265223012	265233012	265213012	265243012	265293012
24	265223024	265233024	265213024	265243024	265293024
72	265223072	265233072	265213072	265243072	265293072
144	265223144	265233144	265213144	265243144	265293144

LSOH is available upon request

Wide Area Network
Outdoor Steel Armored Double Sheath Multi-tube Fiber Optic Cable

The two layer sheath provides good crush resistance performance, also the good mechanical and temperature performance. It performs excellent water resistance and moisture resistance especially in the direct buried application or conduit cabling.
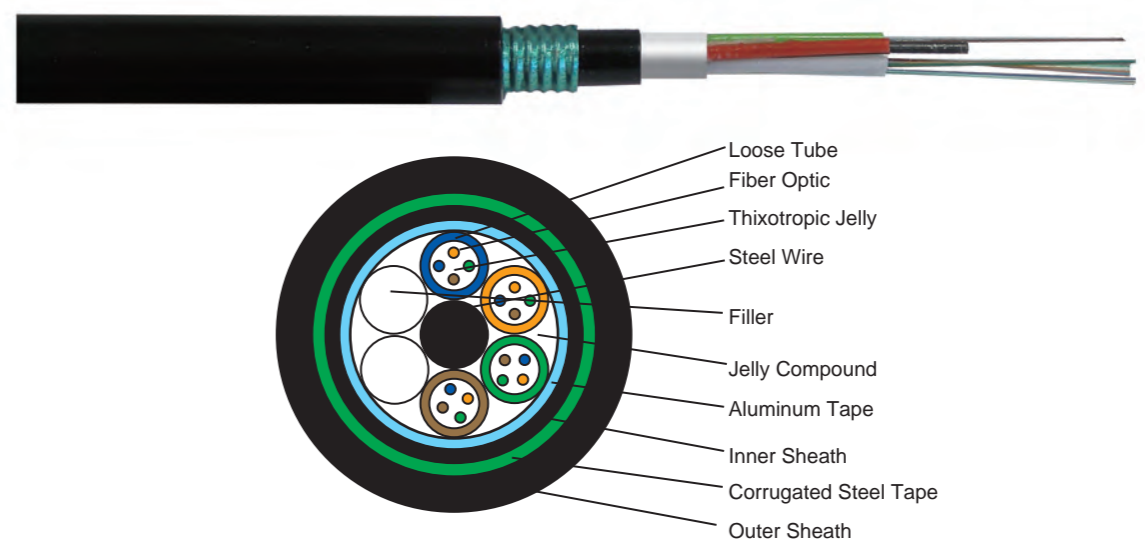
- Loose Tube
- Fiber Optic
- Thixotropic Jelly
- Steel Wire
- Filler
- Jelly Compound
- Aluminum Tape
- Inner Sheath
- Corrugated Steel Tape
- Outer Sheath

Structure & Environmental Characteristics

Loose Tube	Material	PBT
Strength Member	Material	Steel Wire
Wrapping	Material	Aluminum/Corrugated Steel Tape
Sheath	Material / Color	PE / Black
Operating Temperature		-40°C ~ +70°C
Storage / Transport Temperature		-40°C ~ +70°C
Installation Temperature		-40°C ~ +70°C

Mechanical Characteristics

Fiber Count	Outside Diameter (mm)	Cable Weight (kg/km)	Tensile Load		Crush Load		Bend Radius	
			Short Term (N)	Long Term (N)	Short Term (N)	Long Term (N)	Static (mm)	Dynamic (mm)
4	12.8	189	3000	1000	3000	1000	12.5D	25D
8	12.8	189	3000	1000	3000	1000	12.5D	25D
12	12.8	189	3000	1000	3000	1000	12.5D	25D
24	12.8	189	3000	1000	3000	1000	12.5D	25D
72	14.0	221	3000	1000	3000	1000	12.5D	25D
144	18.6	343	3000	1000	3000	1000	12.5D	25D

Outdoor Steel Armored Double Sheath Multi-tube Fiber Optic Cable, PE

Number of Fibers	9/125	50/125	62.5/125	50/125(OM3)	50/125(OM4)
4	266223004	266233004	266213004	266243004	266293004
8	266223008	266233008	266213008	266243008	266293008
12	266223012	266233012	266213012	266243012	266293012
24	266223024	266233024	266213024	266243024	266293024
72	266223072	266233072	266213072	266243072	266293072
144	266223144	266233144	266213144	266243144	266293144

LSOH is available upon request
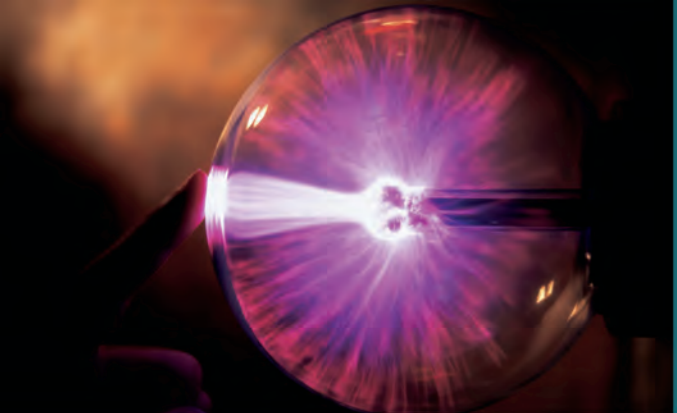
Wide Area Network
Fiber Optic Dome Type Splice Enclosure

Premium Line fiber optic dome type splice enclosure is in hermetically sealed design, easy for assembly and re-entry. The closure is designed with a gasketed split end plate for mid-access cable application and includes an integrated stack storage basket. Max. 6 × 24 cores splice trays support up to 144 cores splice inside and no need special tools for trays fixing or unloading. This type enclosure is available for aerial or wall mount application.

541242402

FEATURES:

◎ Reliable mechanical sealing to prevent liquid or steam penetration

◎ Easy to open and reopen

◎ Available 2in 2out and 3in 3out types

◎ Splice tray capacity: 24cores

◎ 2 in 2 out type up to 72 cores, 3in 3out type up to 144 cores

◎ Made by high strength engineering material to against impact or hit

Fiber Optic Dome Type Splice Enclosure

PART NO.	DESCRIPTION
541122402	Premium Line FO Splice Closure, w/4 Cable Ports (2in, 2out), 48 Cores, Dome Type
541132402	Premium Line FO Splice Closure, w/4 Cable Ports (2in, 2out), 72 Cores, Dome Type
541242402	Premium Line FO Splice Closure, w/6 Cable Ports (3in, 3out), 96 Cores, Dome Type
541262402	Premium Line FO Splice Closure, w/6 Cable Ports (3in, 3out), 144 Cores, Dome Type

Wide Area Network
Fiber Optic Inline Type Splice Enclosure

Premium Line fiber optic inline type splice enclosure is in hermetically sealed design, easy for assembly and re-entry. The enclosure is in compact and water-tight design, provides good impact and low temperature resistance for wide applications. Max. 8 × 24 cores splice trays support up to 192 cores splice inside and no need special tools for trays fixing or unloading. This type enclosure is available for aerial duct and direct buried.

FEATURES:

◎ Comply to IEC 1073-1:1994 test requirements

◎ Reliable mechanical sealing to prevent liquid or steam penetration

◎ Easy to open and reopen

◎ 6 cable entry ports (3in, 3out) for cable diameters of 23 mm(2), 20 mm(2), 16 mm(2)

◎ Splice tray capacity: 24cores

◎ Maximum number of splice trays: 8

◎ Dimension: up to 96cores, 450 × 216 × 110mm; up to 192cores, 450 × 216 × 160 mm

◎ Suit for aerial, duct and direct buried application

542222402

Fiber Optic Inline Type Splice Enclosure

PART NO.	DESCRIPTION
542222402	Premium Line FO Splice Closure w/6 Cable Ports (3in, 3out), 48 Cores
542232402	Premium Line FO Splice Closure w/6 Cable Ports (3in, 3out), 72 Cores
542242402	Premium Line FO Splice Closure w/6 Cable Ports (3in, 3out), 96 Cores
542262402	Premium Line FO Splice Closure w/6 Cable Ports (3in, 3out), 144 Cores
542282402	Premium Line FO Splice Closure w/6 Cable Ports (3in, 3out), 192 Cores

Local Area Network
Access Building Cable with Glass Yarn Strength Member

The optic fibers are positioned in a loose tube made of high modulus plastics. The tube is filled with filling compound to give the fibers excellent water proof performance. The glass yarn between the jacket and loose tube is a strength member and provides rodent resistance.
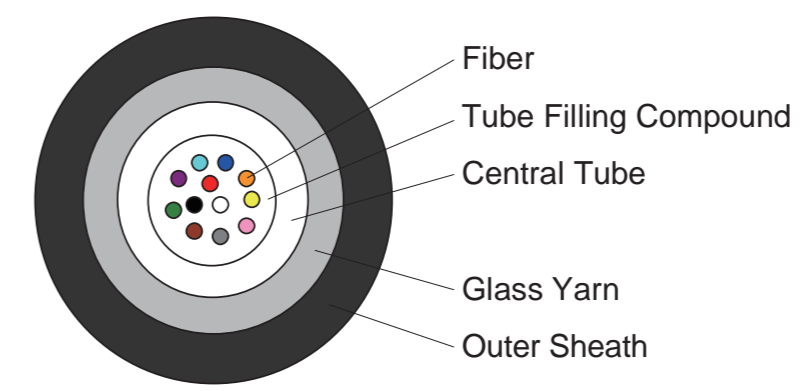
Fiber
Tube Filling Compound
Central Tube

Glass Yarn
Outer Sheath

Structure & Environmental Characteristics

Loose Tube	Material	PBT
Filling Compund	Material	Thixotropic Jelly
Peripheral Strength Member	Material	Glass Yarn
Sheath	Material / Color	PE/Black
Operating Temperature		-20°C ~ +60°C
Storage / Transport Temperature		-20°C ~ +60°C
Installation Temperature		-5°C ~ +50°C

Mechanical Characteristics

Fiber Count	Outside Diameter (mm)	Nominal Cable Weight (kg/km)	Crush Resistance N/100mm	Tensile Load		Bend Radius	
				Short Term (N)	Long Term (N)	Static (mm)	Dynamic (mm)
2~12	6.7	55.5	1000	1000	400	10D	20D
14~24	6.7	67.0	1000	1000	400	10D	20D

Compliant Standard:ITU-T G651 / ITU-T G652 D, ANSI/TIA-D.3, IEC-794

Outdoor Glass Strength Uni-tube Fiber Optic Cable, PE

Number of Fibers	9/125	50/125	62.5/125	50/125(OM3)	50/125(OM4)
4	263123004	263133004	263113004	263143004	263193004
6	263123006	263133006	263113006	263143006	263193006
8	263123008	263133008	263113008	263143008	263193008
12	263123012	263133012	263113012	263143012	263193012
24	263123024	263133024	263113024	263143024	263193024

LSOH is available upon request

Fiber Optic Solution

Local Area Network
Access Building Cable with Glass Yarn and Steel Tape Strength Member

This kind of fiber optic cable comes additional corrugated steel tape strength member to provide double rodent protection. The compact design suit for duct buried application or conduit installation.
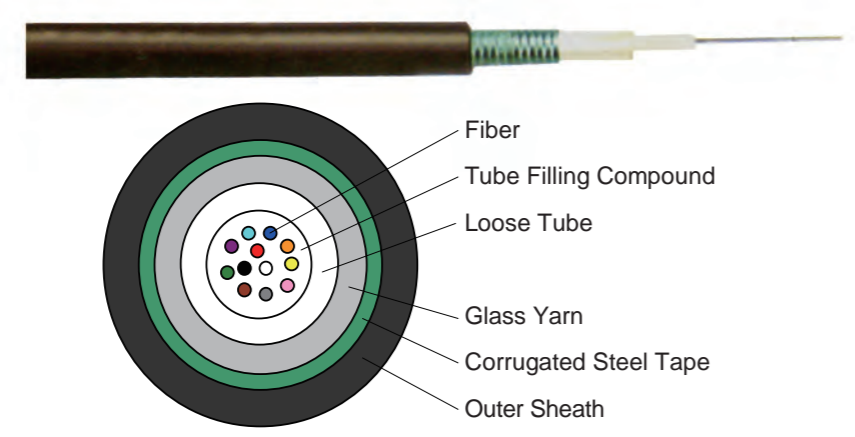
Fiber
Tube Filling Compound
Loose Tube
Glass Yarn
Corrugated Steel Tape
Outer Sheath

Structure & Environmental Characteristics

Loose Tube	Material	PBT
Filling Compund	Material	Thixotropic Jelly
Peripheral Strength Member	Material	Glass Yarn
Moisture Barrier	Material	Corrugated Steel Tape
Sheath	Material / Color	PE/Black
Operating Temperature		-20°C ~ +60°C
Storage / Transport Temperature		-20°C ~ +60°C
Installation Temperature		-5°C ~ +50°C

Mechanical Characteristics

Fiber Count	Outside Diameter (mm)	Nominal Cable Weight (kg/km)	Crush Resistance N/100mm	Tensile Load		Bend Radius	
				Short Term (N)	Long Term (N)	Static (mm)	Dynamic (mm)
2~12	9.2	110	1000	1000	400	10D	20D
14~24	9.2	134	1000	1000	400	10D	20D

Compliant Standard:ITU-T G651 / ITU-T G652 D, ANSI/TIA-D.3, IEC-794

Outdoor Steel Armored Glass Strength Uni-tube Fiber Optic Cable, PE

Number of Fibers	9/125	50/125	62.5/125	50/125(OM3)	50/125(OM4)
4	265123004	265133004	265113004	265143004	265193004
6	265123006	265133006	265113006	265143006	265193006
8	265123008	265133008	265113008	265143008	265193008
12	265123012	265133012	265113012	265143012	265193012
24	265123024	265133024	265113024	265143024	265193024

LSOH is available upon request

Local Area Network
Indoor Tight Buffer Distribution Fiber Optic Cable

The 900µm tight buffer fibers are distributed in the center of the cable. The aramid yarn as strength member surround the fibers, provides excellent tensile strength when it's in installation, the cable is completed with a LSOH jacket.
As the classical premise backbone cabling fiber optic cable, the compact construction is ease for field installation.

Outer Sheath
Aramid Yarn
Tight Buffer
Optic Fiber
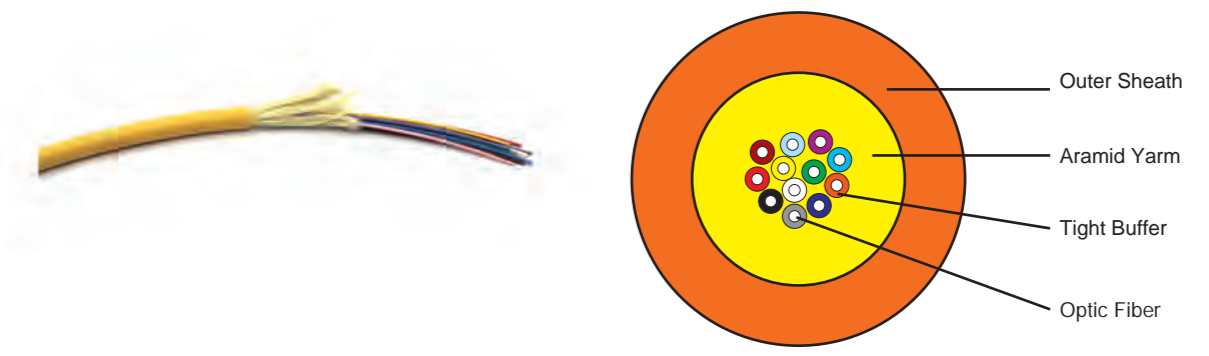
Structure & Environmental Characteristics

Tight Buffer	Material	LSOH
Peripheral Strength Member	Material	Aramid Yarn
Sheath	Material	LSOH
	Color	Yellow, Orange, Aqua
Operating Temperature		-20°C ~ +60°C
Storage / Transport Temperature		-20°C ~ +60°C
Installation Temperature		-5°C ~ +50°C

Mechanical Characteristics

Fiber Count	Outside Diameter (mm)	Nominal cable weight (kg/km)	Crush Resistance N/100mm	Tensile Load		Bend Radius	
				Short Term (N)	Long Term (N)	Static (mm)	Dynamic (mm)
2	3.2	10	1000	660	200	10D	20D
4	4.8	18	1000	660	200	10D	20D
6	5.1	22.5	1000	660	200	10D	20D
8	5.6	28	1000	660	200	10D	20D
12	6.2	38	1000	660	200	10D	20D
24	8.2	63	1000	1320	400	10D	20D

Tight Buffer Code

No.	1	2	3	4	5	6	7	8	9	10	11	12
Color	Blue	Orange	Green	Brown	Grey	White	Red	Black	Yellow	Purple	Pink	Aqua
No.	13	14	15	16	17	18	19	20	21	22	23	24
Color	Blue w/Black Tracer	Orange w/Black Tracer	Green w/Black Tracer	Brown w/Black Tracer	Grey w/Black Tracer	White w/Black Tracer	Red w/Black Tracer	Black w/Black Tracer	Yellow w/Black Tracer	Purple w/Black Tracer	Pink w/Black Tracer	Aqua w/Black Tracer

Indoor Tight Buffer Distribution Fiber Optic Cable, LSOH

Number of Fibers	9/125	50/125	50/125(OM3)	50/125(OM4)	50/125(OM5)
4	261322004	261332004	261342004	261392004	261382004
6	261322006	261332006	261342006	261392006	261382006
8	261322008	261332008	261342008	261392008	261382008
12	261322012	261332012	261342012	261392012	261382012
24	261322024	261332024	261342024	261392024	261382024

PVC is available upon request

Fiber Optic Solution

Local Area Network
19" Fiber Optic Patch Panel

Premium Line 19" rack mountable fiber optic patch panel is designed for both patching and splicing, accepts whole range of adapters including SC, ST, FC, LC adapters. 2 × Rear cable entries accommodate cables with diameter below 10mm. Inside splice trays stacked and available for 48 cores (for LC) terminated inside, and cable spools with 35mm bending radius guarantee all modes fiber storage inside with additional low bending loss. Individual front adapter plate use screws to fix, easy to assemble and exchange. The metal frame is made by cold rolled steel/1.6 mm, and in 1U finished height.

Fiber Optic Patch Panel

PART NO.	DESCRIPTION
241100002	Premium Line Fiber Optic Patch Panel Main Body, Black
242500002	Blank Panel for Fiber Optic Patch Panel, Black
242302082	8port ST Front Panel for Fiber Optic Patch Panel, Black
242301082	8port SC Front Panel for Fiber Optic Patch Panel, Simplex, Black
243000005	Splice Cassette, for 12-port, Grey

Local Area Network
Fully Loaded Adapter Plate

Premium Line provides you fully loaded adapter panel, with whole range of fiber adapter types. The changeable adapter plate design makes sure it can be easily and quickly changed. Saving your time, saving your expenses.

Fully Loaded Adapter Plate

PART NO.	DESCRIPTION
242311082	8port SC , Adapter Panel Simplex, MM, Fully Loaded, Black
242321082	8port SC , Adapter Panel Simplex, SM, Fully Loaded, Black
242312082	8port ST , Adapter Panel Simplex, MM, Fully Loaded, Black
242322082	8port ST , Adapter Panel Simplex, SM, Fully Loaded, Black
242414082	8port LC , Adapter Panel Duplex, MM, Fully Loaded, Black
242424082	8port LC , Adapter Panel Duplex, SM, Fully Loaded, Black
242313082	8port FC , Adapter Panel, Simplex, MM, Fully loaded, black
242323082	8port FC , Adapter Panel, Simplex, SM, Fully loaded, black

Other ports options upon request

Local Area Network
19" Rack Mounted ODF

Premium Line rack mounted optic distribution frame – ODF suits for standard 19" server cabinet installation. This ODF is available for maximum 96 cores terminated inside with SC or FC connectors & adapters, or 192 cores for LC duplex adapters.

Two simplex adapters stack design make it in easy way for pair coupling distribution in classical fiber network operations. The front door is removable during installation and easily seal with two plastic lockers.

For the cable storage, management and future deployment, the front adapter panel and splice position are all in rotate design, easy for any operations inside.

19" Rack Mounted ODF

PART NO.	DESCRIPTION
245001965	19" Rack Mounted ODF, 96 Cores, w/ Splice Trays, w/o Adapter
245011965	19" Rack Mounted ODF, 96 Cores, w/ SC/PC MM Simplex Adapter Loaded
245021965	19" Rack Mounted ODF, 96 Cores, w/ SC/PC SM Simplex Adapter Loaded
245014965	19" Rack Mounted ODF, 96×2 Cores, w/ LC/PC MM Duplex Adapter Loaded
245024965	19" Rack Mounted ODF, 96×2 Cores, w/ LC/PC SM Duplex Adapter Loaded
245001485	19" Rack Mounted ODF, 48 Cores, w/ Splice Trays, w/o Adapter
245011485	19" Rack Mounted ODF, 48 Cores, w/ SC/PC MM Simplex Adapter Loaded
245021485	19" Rack Mounted ODF, 48 Cores, w/ SC/PC SM Simplex Adapter Loaded

Local Area Network
Wall Mount Box

Premium Line wall mount fiber optic box is used for the direct termination of fibers. The rear section accommodates cable entry and protects against taking out the cables. Box includes two separate sections for fusion splice trays and for routing optical connecting modules to the equipment.

The Premium Line four-rack space fiber optic enclosure contains all of the features of the two-rack space model, but with additional capacity to manage fiber counts up to 144. Cable entry/exit feature utilizes a flexible grommet seal, which is cut at time of installation to accommodate the desired cable diameters for entry and exit points. These grommets provide a dust & debris barrier during and after installation.

Wall Mount Box

PART NO.	DESCRIPTION
251011240	Premium Line 24 Port SC Wall Mount Fiber Optic Box without Adapters
251012240	Premium Line 24 Port ST Wall Mount Fiber Optic Box without Adapters
251011480	Premium Line 48 Port SC Wall Mount Fiber Optic Box without Adapters
251012480	Premium Line 48 Port ST Wall Mount Fiber Optic Box without Adapters

www.premiumline-cabling.com
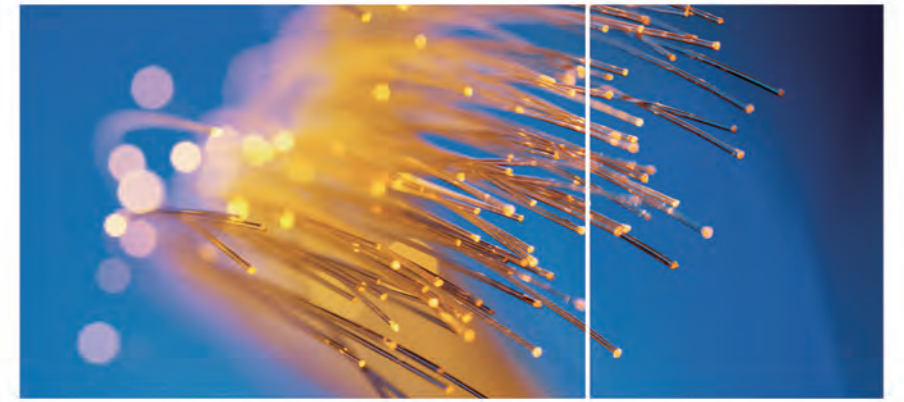
Local Area Network
Fiber Optic Patch Panel, MTP/MPO to LC

FEATURES:

⊙ Plug and play fiber solution eliminates in-field termination and fusion splice, reduces installation cost and time

⊙ Fits all standard 19 inch racks, height / port number: 1U / 48 Ports

⊙ Suitable for MPO/MTP to LC/SC 12port modules(P/N 2470xywz2)

⊙ Material/thickness of body and adapter panels: cold rolled steel

⊙ ANSI/TIA 568-D.3 standard

⊙ RoHS compliant

Fiber Optic Patch Panel

PART NO.	DESCRIPTION
246104482	Premium Line 19" 1U Fiber Optic Patch Panel, 48 Ports, Main Body, Black

Local Area Network
Copper & Fiber, Hybrid Patch Panel

Premium Line Hybrid patch panel is specially designed for flexible deployment for a Data Center cabling, it's a switchable connection way for copper and fiber. This product for 19" rack installation, 24 ports include copper & fiber. 2 interface plates are easily plug in & extract the interface plate, convenient for connector installation. The inside hexagonal bolt is compact design for fiber cable steel member fixing. The fiber plug to install LC duplex quick port jack recommend to use with Premium Line LC duplex adapter & fiber patch cord. The copper plug to install RJ45 keystone jack, recommend to use with Premium Line keystone jack & patch cord.

Copper & Fiber, Hybrid Patch Panel

PART NO.	DESCRIPTION
248100242	Premium Line 1U 19" Copper & Fiber, Hybrid Patch Panel, 24 Ports, No-load, Black

Local Area Network
Fiber Optic High Density Patch Panel

Premium Line fiber optic high density unique design patch panel, with maximum LC connecting & cabling, adopt the high-strength environmental light weight material and superior surface treatment technique, which make the panel achieved complete function and various flexible cabling solution.

FEATURES:

⊙1U/144F LC or 72F SC

⊙2U/288F LC or 144F SC

⊙4U/576F LC or 288F SC

⊙Standard 19" Patch Panel

⊙Independent plug-in cassette

⊙Environmental light weight Aluminum material

⊙Front-end cable management

⊙Stable adapter structure

⊙Compatible with 8F&12F solution

⊙Replaceable label and layer remark

⊙Duplex and Quad adapter available

⊙Various connectors are optional

⊙MPO-LC fan out and LC/SC trunk cable

⊙Multi-applications in Data center and FTTx

Fiber Optic High Density Patch Panel

PART NO.	DESCRIPTION
661100002	Fiber Optic High Density Patch Panel,1U,w/o modules/cassettes
663010012	Cassette for HD FO Panel MPO/MTP to MPO/MTP, 12 ports, type A
662112112	Cassette for HD FO Panel MPO/MTP to LC, 12 ports, OM3, LC Duplex,12MPO, female, type A

Other type upon request

www.premiumline-cabling.com

Connectivity
Fiber Optic MTP Trunk Cable

Premium Line MTP patch cord connector type upon request, including SC, LC. The patch cord length is according to actual objects.

FEATURES:

◉ Product conforms: IEC61754-7,IEC61754-20

◉ Insertion loss conforms: IEC61300-3-4

◉ Return loss conforms: IEC61300-3-6

◉ Environmentally stable in optical performance

◉ Provide total immunity to electrical interference

◉ RoHS compliant

Connectivity
Fiber Optic Patch Cord

Fiber optic patch cords are suited for equipment jumper cable, cross connects, and work area connections. All patch cords are 100% factory tested to ensure performance to ANSI/TIA 568-D.3, ISO 11801:2002 and EN 50173-1 standards. With complete connector range of SC, ST, LC, FC, and also the different mode of fiber cables, consists of various combination for all-field applications.

Patch Cord Characteristics

Mechanical Test	Additional Loss
Mating Durability: Min.1000 times	≤0.1 dB
Cable Retention:100 N, 120 s	≤0.2 dB
Strength of Coupling Mechanism: 40 N, 120 s	≤0.1 dB
Drop Test: 1.5 m, 5 times	≤0.2 dB
Vibration: 10-500Hz,1.5mm amplitude	≤0.1dB
Temperature Test	Additional Loss
Cold Environment Storage: -40 °C, 96 h	≤0.2 dB
High Temperature Storage: +85 °C, 96 h	≤0.2 dB
Temperature Change: -40 °C ~ +85 °C, 20 Cycles	≤0.2 dB
Damp Heat: +25 °C ~ +65 °C, 93%RH,100 h	≤0.2 dB

Fiber Optic Patch Cord

PART NO.	DESCRIPTION
213566L	SC/UPC-SC/UPC Duplex Single Mode Patch Cord, 9/125
212566L	SC/UPC-SC/UPC Duplex Multimode Patch Cord, 50/125
214566L	SC/UPC-SC/UPC Duplex Multimode Patch Cord, OM3 50/125
218566L	SC/UPC-SC/UPC Duplex Multimode Patch Cord, OM5 50/125
213577L	ST/UPC-ST/UPC Duplex Single Mode Patch Cord, 9/125
212577L	ST/UPC-ST/UPC Duplex Multimode Patch Cord, 50/125
214577L	ST/UPC-ST/UPC Duplex Multimode Patch Cord, OM3 50/125
218577L	ST/UPC-ST/UPC Duplex Multimode Patch Cord, OM5 50/125
213588L	FC/UPC-FC/UPC Duplex Single Mode Patch Cord, 9/125
212588L	FC/UPC-FC/UPC Duplex Multimode Patch Cord, 50/125
214588L	FC/UPC-FC/UPC Duplex Multimode Patch Cord, OM3 50/125
218588L	FC/UPC-FC/UPC Duplex Multimode Patch Cord, OM5 50/125
213799L	LC/UPC-LC/UPC Duplex Single Mode Patch Cord, 9/125
212799L	LC/UPC-LC/UPC Duplex Multimode Patch Cord, 50/125
214799L	LC/UPC-LC/UPC Duplex Multimode Patch Cord, OM3 50/125
218799L	LC/UPC-LC/UPC Duplex Multimode Patch Cord, OM5 50/125

"L" as a substitute for length:
010 = 1m 020 = 2m 030 = 3m 050 = 5m 070 = 7m 100 = 10m
Other length, APC, simplex, LSOH sheath upon request

Fiber Optic MTP Trunk Cable

PART NO.	DESCRIPTION
81116622L	Premium Line Fiber Optic MTP-MTP(12C) Trunk Cable, 12core, SM 9/125, LSOH, Male-Male
81146622L	Premium Line Fiber Optic MTP-MTP(12C) Trunk Cable, 12core, OM3, LSOH, Male-Male
81117732L	Premium Line Fiber Optic MTP-MTP(24C) Trunk Cable, 24core, SM 9/125, LSOH, Male-Male
81147732L	Premium Line Fiber Optic MTP-MTP(24C) Trunk Cable, 24core, OM3, LSOH, Male-Male
8116922L	Premium Line Fiber Optic MTP(12C)-LC/UPC Trunk Cable, 12core, SM 9/125, LSOH, Male Type
8146922L	Premium Line Fiber Optic MTP(12C)-LC/UPC Trunk Cable, 12core, OM3, LSOH, Male Type
8117932L	Premium Line Fiber Optic MTP(24C)-LC/UPC Trunk Cable, 24core, SM 9/125, LSOH, Male Type
8147932L	Premium Line Fiber Optic MTP(24C)-LC/UPC Trunk Cable, 24core, OM3, LSOH, Male Type
8019922L	Premium Line Fiber Optic LC/UPC-LC/UPC Trunk Cable, 12core, SM 9/125, LSOH
8049922L	Premium Line Fiber Optic LC/UPC-LC/UPC Trunk Cable, 12core, OM3, LSOH
8019932L	Premium Line Fiber Optic LC/UPC-LC/UPC Trunk Cable, 24core, SM 9/125, LSOH
8049932L	Premium Line Fiber Optic LC/UPC-LC/UPC Trunk Cable, 24core, OM3, LSOH

"L" as a substitute for length:
010 = 1 m 020 = 2 m 030 = 3 m 050 = 5 m 100 = 10 m 001=100m
Other length, cable jacket, polarity fiber count, PVC sheath upon request

Fiber Optic Solution

premium
line

Connectivity
Fiber Optic Pigtail

Fiber Optic Pigtail

PART NO.	DESCRIPTION
223113L	SC/UPC Single Mode Pigtail, 9/125, 0.9 mm
222113L	SC/UPC Multimode Pigtail, 50/125, 0.9mm
224113L	SC/UPC Multimode Pigtail, OM3 50/125, 0.9 mm
228113L	SC/UPC Multimode Pigtail, OM5 50/125, 0.9 mm
223143L	LC/UPC Single Mode Pigtail, 9/125, 0.9 mm
222143L	LC/UPC Multimode Pigtail, 50/125, 0.9 mm
224143L	LC/UPC Multimode Pigtail, OM3 50/125, 0.9 mm
228143L	LC/UPC Multimode Pigtail, OM5 50/125, 0.9 mm
223133L	FC/UPC Single Mode Pigtail, 9/125, 0.9mm
222133L	FC/UPC Multimode Pigtail, 50/125, 0,9mm
224133L	FC/UPC Multimode Pigtail, OM3 50/125, 0.9mm
228133L	FC/UPC Multimode Pigtail, OM5 50/125, 0.9mm
223123L	ST/UPC Single Mode Pigtail, 9/125, 0.9mm
222123L	ST/UPC Multimode Pigtail, 50/125, 0,9mm
224123L	ST/UPC Multimode Pigtail, OM3 50/125, 0.9mm
228123L	ST/UPC Multimode Pigtail, OM5 50/125, 0.9mm

"L" as a substitute for length:
010 = 1 m 020 = 2 m 030 = 3 m 050 = 5 m 070 = 7 m 100 = 10 m
Other length, type, APC, LSOH sheath upon request
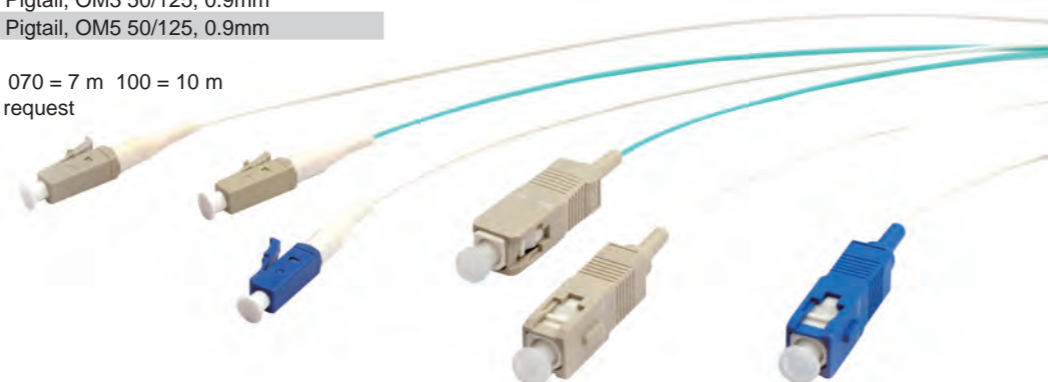
Connectivity
12 Pack Pigtail

Premium Line 12 pack pigtail integrated design with good performance will be your better choice. Completely connector range including FC, ST, SC, LC, 12 different colorful sheath as easy indication, use additional outer jacket wrapping protect the pigtails also ease to manage.

12 Pack Pigtail

PART NO.	DESCRIPTION
223513L	SC/UPC 12 Pack Pigtail, SM 9/125
221513L	SC/UPC 12 Pack Pigtail, MM 62.5/125
222513L	SC/UPC 12 Pack Pigtail, MM 50/125
224513L	SC/UPC 12 Pack Pigtail, OM3 50/125
223543L	LC/UPC 12 Pack Pigtail, SM 9/125
221543L	LC/UPC 12 Pack Pigtail, MM 62.5/125
222543L	LC/UPC 12 Pack Pigtail, MM 50/125
224543L	LC/UPC 12 Pack Pigtail, OM3 50/125
223523L	ST/UPC 12 Pack Pigtail, SM 9/125
221523L	ST/UPC 12 Pack Pigtail, MM 62.5/125
222523L	ST/UPC 12 Pack Pigtail, MM 50/125
224523L	ST/UPC 12 Pack Pigtail, OM3 50/125
223533L	FC/UPC 12 Pack Pigtail, SM 9/125
221533L	FC/UPC 12 Pack Pigtail, MM 62.5/125
222533L	FC/UPC 12 Pack Pigtail, MM 50/125
224533L	FC/UPC 12 Pack Pigtail, OM3 50/125

"L" as a substitute for length:
010 = 1 m 020 = 2 m 030 = 3 m 050 = 5 m 070 = 7 m 100 = 10 m
Other length, type, UPC/APC, LSOH sheath upon request

Connectivity
Adapter

Premium Line provides fiber optic adapters including ST, SC, LC and FC. All adapters are produced with a zirconia sleeve for universal applications (MM/SM).All SC and LC adapters are provided with retaining clips for easy, snap-in mounting.
And performance meets with ANSI/TIA 568-D.3 standard.

Adapter

PART NO.	DESCRIPTION
231111108	SC/PC Duplex MM Adapter, Zirconia Ceramic Sleeve, Beige
231211104	SC/PC Duplex SM Adapter, Zirconia Ceramic Sleeve, Blue
231411106	SC/APC Duplex SM Adapter, Zirconia Ceramic Sleeve, GREEN
231111408	LC/PC Duplex MM Adapter, Zirconia Ceramic Sleeve, Beige
231211404	LC/PC Duplex SM Adapter, Zirconia Ceramic Sleeve, Blue
231411406	LC/APC Duplex SM Adapter, Zirconia Ceramic Sleeve, GREEN
231121200	ST/PC MM Adapter, Zirconia Ceramic Sleeve
231221200	ST/PC SM Adapter, Zirconia Ceramic Sleeve
231121310	FC/PC MM small D-flange adapter, Zirconia Ceramic Sleeve
231221310	FC/PC SM small D-flange adapter, Zirconia Ceramic Sleeve

Other type, simplex, APC upon request

Connectivity
Field Assembly Connector

Field assembly connector is very easy installable and re-usable field assembly connector which the fiber can be connected/disconnected only by on/off of a small latch attached on connector body, which is composed of two parts of a connector body and a boot it is designed to have the structure and the function to construct the more economic FTTH network.

Field Assembly Connector

PART NO.	DESCRIPTION
236x20yzw	Premium Line Field Assembly Connector

"x", 1=MM; 2=SM "y", 1=SC/APC;4=LC/APC;6=SC/UPC;9=LC/UPC "z", 3=0.9mm(only for LC);4=2.0mm(only for SC); 5=3.0mm(only for SC) "w", 1=beige; 4= blue;6=green

Fiber Optic Adapter Support Module

Premium Line fiber optic adapter support module fits to 12182x010 USA faceplate and unloaded patch panel (P/N 170242402, 178242402, 170252402). SC support module available for both LC duplex and SC simplex adapters, ST support module available for both ST and FC D flange type adapters. Which material is UL-94V-0 high-impact, fire-retardant ABS resin.

127220000

127120000

Fiber Optic Adapter Support Module

PART NO.	DESCRIPTION
127120000	Premium Line Fiber Optic SC simplex/ LC Duplex Type Adapter Support Module, w/o Adapter Loaded, Black
127220000	Premium Line Fiber Optic ST/FC Type Adapter Support Module, w/o Adapter Loaded, Black

White on request

Fiber Optic Solution

FTTX
FTTH Distribution Cable

Premium Line outdoor metal free FTTH distribution cable is ideal design for the distribution from main street cabinet or central telecommunication room to ONU (optic network unit) for subscribers' houses or apartment residential buildings. The stranded construction is ideal for ease multiple ONUs distribution and also as a riser cable in the building.

◎ ITU-G652D fibers in use, OS2 grading after cabled (att. <0.4dB @ 1310nm/1550nm)
◎ 2 cores per tube design, ideal for FTTx 1:8,1:16, 2:16 or 2:32 fiber channels distribution
◎ Double water-proof members, excellent water resistance performance
◎ User friendly "Dry Core" design, for comfortable and easy installation
◎ Outer diameter 10.8mm available fits with ODN access holes
◎ Metal free construction could install with exist utility, like power lines
◎ MM cores available upon request

Fiber
Tube filling compound
Loose tube
Water-blocking yarn

Water-blocking tape
PE sheath
FRP strength member
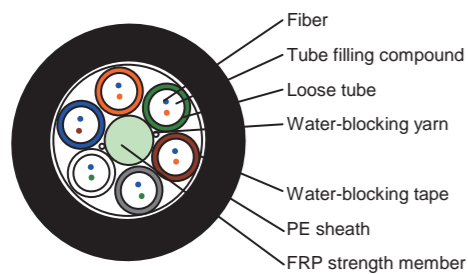
2~12CORES, 2CORES PER TUBE

Fiber
Tube filling compound
Loose tube
Water-blocking yarn

Water-blocking tape
PE sheath
FRP strength member
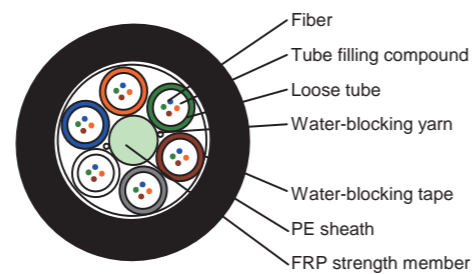
ABOVE 12 CORES, 4CORES PER TUBE

Technical Parameters

Parameter		Units	Value / Details
Fiber Type			ITU-T G652D
Fiber Count			4, 6, 12, 24
Cable Diameter		mm	10.8
Cable Weight		Kg/Km	90
Cable Sheath, Radial		mm	1.8 Nominal
Tensile Strength		N	1000
Bending Radius	Dynamic		≥ 20 x Cable Diameter
	Static		≥ 10 x Cable Diameter
Crush Resistance		N/10 cm	1000
Operational Temperature			-40 to +70 for PE; -20 to +70 for LSOH

FTTH Distribution Cable

PART NO.	DESCRIPTION
264223xxx2	Outdoor metal free stranded FO cable, dry core for FTTx distribution, PE, Black
264222xxx2	Metal Free Stranded FO Cable, Dry Core for FTTx Distribution, LSOH, Black

"xxx" fiber cores, 004/006/008/012/024

FTTX
FTTH Distribution Box

The optical network unit to the single house, floor distribution of residence building and upon head power utility installation, always requires compact design, easy installation and operation, as well as weather durable characteristics. Premium Line FTTH distribution box is aim designed for multi-purpose applications in FTTH projects, the dual layer design supports direct termination, and also FTTH distributions via mini splitter built in, available to 1:8, 1:16 and 2:16 distributions with Premium Line FTTH distribution cable. The special designed cable exit fits with FTTH drop flat cable, guarantee the IP grading before and after operations. 4ports, 8ports, 16ports, 24ports, 36port s and 48ports is optional.

Features:
◎ Main body made by ABS, inner structure made by PC
◎ Anti-UV and water proof design for both indoor and outdoor uses
◎ Accommodates splitters and apply to SC simplex adapters
◎ Additional fix position for outdoor cables
◎ IP 55 protection level, all weather use

Applications:
◎ Widely used in FTTH access network
◎ Telecommunication Networks
◎ CATV networks
◎ Local area networks

Operation Condition:
◎ Temperatures: -40°C – +60°C
◎ Humidity: 93% at 40°C
◎ Air Pressure: 62kPa – 101kPa

253211240

FTTH Distribution Box

PART NO.	DESCRIPTION
253211xx0	Premium Line FTTH Distribution Box, SC Simplex Type, without Adapters

"xx", 04=4ports; 08=8ports; 16=16ports; 24=24ports; 36=36ports; 48=48ports

Fiber Optic Solution

FTTX
FTTH Cable

As the increasing demand on the communication transmission and exchange capacity, traditional copper based access solutions will not comply with the request of high bandwidth and longer distance. Also, with the maturity fiber optic premise network & protocol implementation and developing, like 1G-EPON, 10G-EPON, GPON, the fiber trend is not a far future trend. Fiber to the home (FTTH), the optic fiber directly links the multi-subscribers to the LAN with real high bandwidth provision. As the final access to the subscriber, Premium Line FTTH low bending loss drop flat series cables are aimed design for this high bandwidth network. The excellent optic performance with competitive price is your right choice.

- Sheath
- Optic Fiber
- Strength Member(FRP)
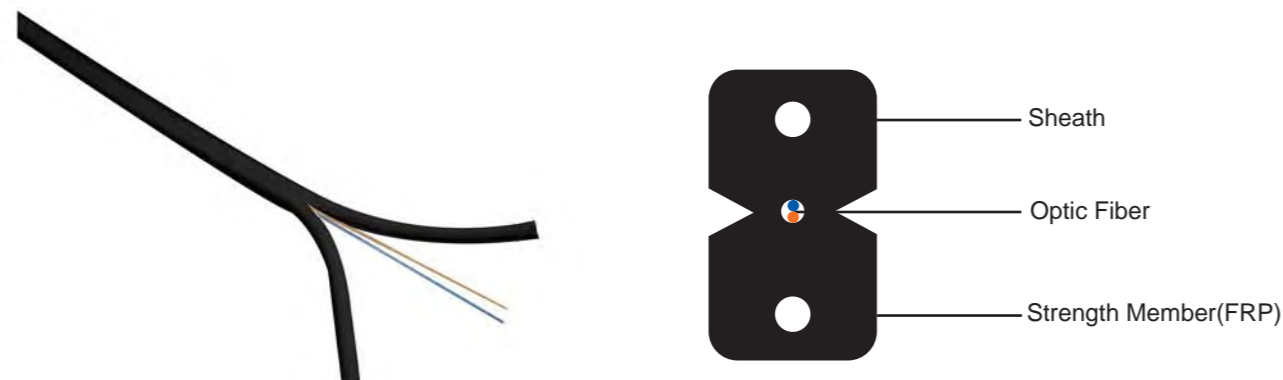
Structure & Environmental Characteristics

Peripheral Strength Member	Material	FRP
	Diameter	0.5 mm
Sheath	Material / Color	LSOH / Black
Operating Temperature		-20°C ~ +60°C

Mechanical Characteristics

Fiber Count	Outside Diameter (mm)	Cable Weight (kg/km)	Tensile Strength		Crush Resistance		Bend Radius	
			Short term (N)	Long term (N)	Short Term (N/100 mm)	Long Term (N/100 mm)	Static (mm)	Dynamic (mm)
2	2.0 × 3.0	8.5	80	40	1000	500	15	30

Optical Performance

Uncabled Fiber Macrobending Loss	G652D		G657A2	
Radius	30	15	10	7.5
Number of Turns	100	10	1	1
Max. at 1550 nm (dB)	-	0.03	0.1	0.5
Max. at 1625 nm (dB))	0.1	0.1	0.2	1.0

FTTH Cable

PART NO.	DESCRIPTION
261422002	FO ID Cable, FTTH w/Two FRP Strength Members, Flat Type, SM9/125(G652D), 2C, LSOH
261462002	FO ID Cable, FTTH w/Two FRP Strength Members, Flat Type, SM9/125(G657A2), 2C, LSOH

As premises complex corner-bending situation, to conquer and avoid bending loss, Premium Line provides G652D, G657A2 fibers for your option.

FTTX
FTTD Wall Box

FTTD- fiber to the desktop, Premium Line featured FTTD wall box is ideal design to support extend FTTH network direct to your desktop!

Features:

- Standard 86×86 size and quality material in use,
- Side adapter position to avoid direct eye contact
- Wall mountable or other surface attach
- Inner cable routing radius over 20mm, good for additional loss control
- 2 side paths for FTTH drop flat cable
- 2 adapter positions

252311021

FTTD Wall Box

PART NO.	DESCRIPTION
252311021	Fiber Optic FTTD Wall Box, 86×86, SC Simplex

FTTX
Fiber Optic Faceplate

86×86 Size

Premium Line Fiber optic faceplate is in standard 86×86 design, it's available to secures to any surface, drywall, baseboard, and even modular furniture. It's available 2 types, SC duplex (LC quad), ST dual ports, 45°adapter plug- in/out angle avoid any hurt from light.

Features:

- 100% compatible with standard 86*86 back box
- Adapter can be snapped in and out easily
- Comes with hidden mounting screws and clear outlet ID labels
- Apply UL-94V-0 high-impact, fire-retardant ABS resin
- RoHS complaint

252012021

252021011

Fiber Optic Faceplate

PART NO.	DESCRIPTION
252021011	Fiber Optic SC Duplex Faceplate, 86×86, 1 Port, White
252012021	Fiber Optic ST Simplex Faceplate, 86×86, 2 Port, White

Fiber Optic Solution

Fiber Optic Solution

Preterminated fiber optic cable

The preterminated fiber optic cable are breakout cables with premounted connectors which allow an easy installation of backbone connections. They are impermeable to splash-water and as an option they can be manufactured with an armor against rodent. The cable consists of 4 or more fiber optic cables. Each single cable has a 900µm coating. A layer of aramid yarn is placed around the core. The cable is completed with an outer sheath made of LSOH or PVC.

The preterminated fiber optic cables are manufactured with an included splitting element which is covered by a black heat-shrinking tube. The cable can be ordered with a pre-terminated pulling eye. Also a cable gland and a fiber-guide can be mounted to the cables on request. The fiber-guide can be screwed direct to a patch panel or splice tray.

Preterminated Pulling Eye (optional):

It prevents the connectors to be damaged during installation in ducts or trays. The pulling eye can be shipped pre-mounted on the cable or for later mounting onto the cable it can be done by the customer itself (depends on the type of the pulling eye).

Pre-mounted pulling eye   self-mounting pulling eye

When using the pulling eye the end of the fiber cables are cascaded. The length differs between 50-80cm. With this cascading the diameter of the pulling eye will be reduced so you can easier install the cable into tubes or trays.

Fiberguide:

Preterminated fiber optic cables can be installed with a splitting element instead of the heat shrinking tube. The advantage by using the fiber guide is that the single fibers can enter the patch panel or splicing tray in a defined way and it is also more robust as the shrinking tube. The fiber guide can be screwed onto most patch panels or splice trays. The fiber guide is available for 12, 24 or 48 fibers. For cables with 24 or 48 fibers the fiber guide is premounted on the cable.

Mode	OM1, OM2, OM3, OM4, OS2 (single mode)
Types of connectors for OM1, OM2, OM3, OM4	E2000, FC, LC, SC, ST, MTRJ, MU
Types of connectors for OS2 (singlemode)	E2000/APC, FC/APC, LC/APC, SC/APC

Index By Part Number