

Access to High Speed Ethernet Category 6A⁺ Cabling Solutions

Premium Line CATEGORY 6A⁺ CABLING SOLUTIONS

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 100 m.

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

10G Bandwidth

10GBASE-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 10 G 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!

Installation Cable

Category 6A⁺ S/FTP 1000MHz

Patch Cord

Category 6A⁺ S/FTP Patch Cord

Keystone Jack

Category 6A⁺ 180° Shielded Die-casting Keystone Jack

Modular German Outlet

**CATEGORY 6A+
CABLING SOLUTIONS**

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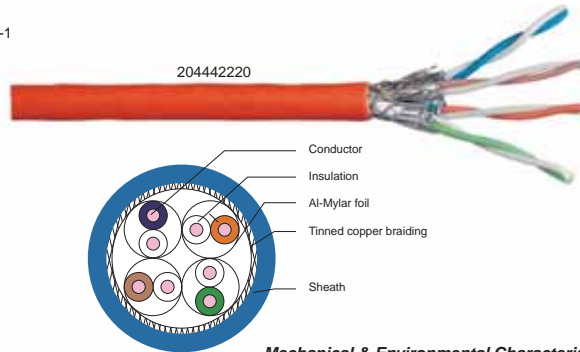
Installation Cable
Category 6A+ S/FTP 1000MHz

Standards:

- ISO/IEC 2nd Edition Amendment 1.2
- CENELEC EN 50288-10-1, EN 50288-4-1
- ISO/IEC 61156-5 2nd Edition
- ISO/IEC 61156-6
- ANSI/TIA-568-C.2
- RoHS Compliant

Application:

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



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
	Coverage	Nom. 48%
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

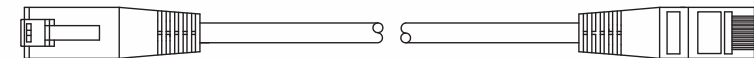
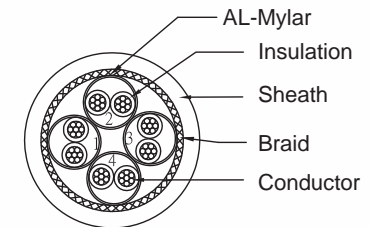
Freq (MHz)	Insertion Loss (dB)		NEXT (dB/100m)		PS NEXT (dB)		ACR-F (dB)		PS ACR-F (dB)		Return Loss (dB)	
	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.	Nor.	Typ.
1.0	2.1	1.7	74.3	100.0	72.3	97.0	67.8	90.0	64.8	87.0	20.0	30.0
4.0	3.8	3.4	65.3	100.0	63.3	97.0	55.8	90.0	52.8	87.0	23.0	33.0
10.0	5.9	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	39.3	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	66.2	10.0	63.1	14.9	27.3
600.0	50.0	42.6	32.7	86.1	30.7	83.1	12.3	60.0	9.3	57.0	14.6	27.3
800.0	58.7	48.2	30.8	83.1	28.8	80.1	9.8	52.1	6.8	49.1	13.7	27.3
900.0	62.7	53.8	30.0	82.0	28.0	79.0	8.8	48.0	5.8	45.0	13.4	25.0
1000.0	66.6	57.5	29.3	81.0	27.3	78.0	7.8	46.0	4.8	43.0	13.1	24.0

Category 6A+ S/FTP 1000MHz Installation Cable

PART NO.	DESCRIPTION	PACKING SIZE
204442220	Premium Line Category 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

Premium Line Category 6A+ S/FTP patch cord is aimed to apply for high end project and Telecoms applications. Its "Class E_A patch cord" level pass performance guarantees the complete Class E_A 10G link according to latest ISO/IEC 11801 AMD:2 2010. And it's also Ideal jumpers for cross-connect/interconnect.

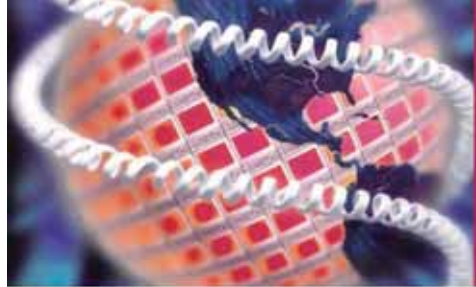


Construction

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
	Coverage	Nom. 48%
Sheath	Material	LSOH
	Diameter	5.7± 0.3 mm

Category 6A+ S/FTP Patch Cord

Length	Grey	Green	Blue	Red	Yellow
0.5m	188420055	188420056	188420054	188420053	188420058
1m	188420105	188420106	188420104	188420103	188420108
2m	188420205	188420206	188420204	188420203	188420208
3m	188420305	188420306	188420304	188420303	188420308
5m	188420505	188420506	188420504	188420503	188420508
7m	188420705	188420706	188420704	188420703	188420708
10m	188421005	188421006	188421004	188421003	188421008



CATEGORY 6A⁺ CABLING SOLUTIONS

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Keystone Jack

Category 6A⁺ 180° Shielded Die-casting Keystone Jack

To fully support Class E_A link for 10G applications, Premium Line Cat.6A⁺ keystone jack achieves re-embedded performance definition according to ISO/IEC 11801 AMD:2 2010. 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 quickly 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
- Be 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

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

Category 6A⁺ 180° Shielded Die-casting Keystone Jack

PART NO.	DESCRIPTION	PACKING SIZE
108524010	Premium Line Category 6A ⁺ 180° Shielded Die-casting Keystone Jack	53.8x35.2x27cm

Modular German Outlet

Premium Line shutter type modular outlet is in standard German style, finished in 80x80 size. Available to provide RAL9010 and RAL1013 color for option. And also the compatible back box with same color is on your request.



123212090



112003080

Modular German Outlet

PART NO.	DESCRIPTION	PACKING SIZE
123212090	2-Port 45° Modular Outlet for Keystone with Shutter, 80x80 mm, RAL 9010	47.5x38.5x26 cm
123212080	2-Port 45° Modular Outlet for Keystone with Shutter, 80x80 mm, RAL 1013	47.5x38.5x26 cm
112003090	Wall Mounted Back Box 80x80x40 mm, Color RAL 9010	43x31x29 cm
112003080	Wall Mounted Back Box 80x80x40 mm, Color RAL 1013	43x31x29 cm

CATEGORY 6A⁺ CABLING SOLUTIONS