

XL500-CPR-A

CAT5e Network Twisted Pair Cable



- 305 m (1000 ft)/carton UTP CAT5e, power over Ethernet, compatible with one cable
- Constructions of 4 pairs twisted cables
- High-purity oxygen-free copper conductor
- Customized PVC outer sheath; CE CPR Eca flame retardant class certified

Conductor

Material	Oxygen-free copper (99.99% purity)
Diameter	1/0.50mm (0.50mm±0.02mm)

Insulation

Material	HDPE
Min. Thickness	0.17 mm
Avg. Thickness	0.19 mm
Diameter	0.92mm±0.05mm
Color (4 Pairs)	Blue, white/blue; orange, white/orange; green, white/green; brown, white/brown

Rip Cord

Material	Nylon
Specification	1000D

Sheath

Material	PVC
Min. Thickness	0.4mm
Avg. Thickness	0.5mm
Diameter	5.2mm±0.30mm
Color (default)	Blue

Electrical

Max. DC Resistance of a Single Conductor	≤9.38Ω/100M at 20°C
Min. Insulation Resistance	5000MΩ·km
Dielectric Strength	No Breakdown with 1000V DC for 1min

Transmission

Characteristic Impedance	100Ω±15Ω
Near End Cross Talk	≥35.3 dB/100 m@100 MHz
Max. Attenuation	≤22.0 dB/100 m@100 MHz
Return Loss	≥20.1 dB/100 m@100 MHz

Mechanical

Tensile Strength	Sheath≥13.5 MPa, insulation≥16 MPa
Elongation at Break	Sheath≥150%, insulation≥300%
Installation Bending Radius	≥8 times of cable diameter
Conductor Elongation at Break	≥10%

Environmental

Shrinkage of Insulation	≤5%
Color Migration Resistance of Insulation	No migration
Sheath Tensile Strength and Elongation at Break after Aging	≥12.5MPa, ≥125%
Low Temperature Bending Test	No cracking after the test
Heat Shock Test	No cracking after the test
Operating Temperature	-20°C to +60°C (-4°F to 140°F)

Security

Vertical Fire Propagation Test	Comply with GB/T18380-2008
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Packaging

Cable Length	305.0m (1000.66 ft)±1.5m
Inner Carton Dimensions	355.0 mm × 355.0 mm × 220.0 mm (13.98" × 13.98" × 8.66") (L × W × H)
Packaging Method	Carton
Net Weight	19.5kg (42.99 lb)
Gross Weight	22.0kg (48.50 lb)

Compliance

Executive Standards	YD/T1019-2013; ISO/IEC11801; ANSI/TIA/ETA568-B
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Certification

Certification	CPR Eca
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**Transmission Characteristics
(100 m at 20°C) (328.08 ft at 68°F)**

Frequency (MHz)	Phase delay ≤ns	IL ≤ db	TCL ≥ db	EL TCTL ≥ db	NEXT ≥ db	PS NEXT ≥ db	EL FEXT≥db	PS EL FEXT≥db	RL ≥ db	Delay skew ≤ ns	Zc (Ω)
1	n/s	n/s	50.0	35.0	n/s	n/s	n/s	n/s	n/s	n/s	n/s
4	552.0	4.1	44.0	23.0	56.3	53.3	52.0	49.0	23.0	45.0	100±15
8	547.0	5.8	41.0	16.9	51.8	48.8	45.9	42.9	24.5		
10	545.0	6.5	40.0	15.0	50.3	47.3	44.0	41.0	25.0		
16	543.0	8.2	38.0	10.9	47.2	44.2	39.9	36.9	25.0		
20	542.0	9.3	37.0	9.0	45.8	42.8	38.0	35.0	25.0		
25	541.0	10.4	36.0	7.0	44.3	41.3	36.0	33.0	24.3		
30	540.6	11.5	35.2	5.5	43.1	40.1	34.5	31.5	23.8		
31.25	540.0	11.7	35.1	n/s	42.9	39.9	34.1	31.1	23.6		
62.5	539.0	17.0	32.0	n/s	38.4	35.4	28.1	25.1	21.5		
100	538.0	22.0	30.0	n/s	35.3	32.3	24.0	21.0	20.1		

