

XL600-CPR-A

CAT 6 Network Twisted Pair Cable



- Constructions of 4 pairs twisted cables
- Conductor sizes of 23 AWG available
- 85 to 115 Ohm impedance available
- High-purity oxygen-free copper conductor
- Customized PVC outer sheath; CE/FLUKE/CPR Eca flame retardant class certified

Conductor

Material	Oxygen-free copper (99.99% purity)
Diameter	1/0.56mm (0.55mm±0.01)

Insulation

Material	HDPE
Min. Thickness	0.17mm
Avg. Thickness	0.19mm
Diameter	1.0mm±0.05mm
Color (4 Pairs)	Blue, white/blue; orange, white/orange; green, white/green; brown, white/brown

Separator

Material	PE
Specification	Translucent 4.3x0.35mm

Rip Cord

Material	Nylon
Specification	1000D

Sheath

Material	PVC
Min. Thickness	0.4mm
Avg. Thickness	0.5mm
Diameter	6.1mm±0.30mm
Color (default)	Blue

Electrical

Conductor Resistance	≤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	≥39.3 dB/100 m@250 MHz
Max. Attenuation	≤32.8 dB/100 m@250 MHz
Return Loss	≥17.3 dB/100 m@250 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)
Inner Carton Dimensions	395.0 mm ×395.0 mm × 235.0 mm (15.55" × 15.55" × 9.25") (L × W × H)
Packaging Method	Carton
Net Weight	24.0kg (52.91 lb)
Gross Weight	27.0kg (59.52 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	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
4	552.0	3.8	44.0	23.0	63.3	56.0	53.0	23.0	45.0	100±15
8	547.0	5.3	41.0	16.9	58.8	49.9	46.9	24.5		
10	545.0	6.0	40.0	15.0	57.3	48.0	45.0	25.0		
16	543.0	7.6	38.0	10.9	54.2	43.9	40.9	25.0		
20	542.0	8.5	37.0	9.0	52.8	42.0	39.0	25.0		
25	541.0	9.5	36.0	7.0	51.3	40.0	37.0	24.3		
30	540.6	10.7	35.2	5.5	50.1	38.5	35.5	23.8		
31.25	540.0	11.7	35.1	n/s	49.9	38.1	35.1	23.6		
62.5	539.0	15.4	32.0	n/s	45.4	32.1	29.1	21.5		
100	538.0	19.8	30.0	n/s	42.3	28.0	25.0	20.1		
200	537.0	29.0	27.0	n/s	37.8	22.0	19.0	18.0		
250	536.0	32.8	26.0	n/s	36.3	20.0	17.0	17.3		

Dimensions

