Balanced Twisted-Pair Horizontal Cable

FTP CAT6 CCA PVC

NEW TECH
YOUR SMART HOME SPECIALISTS

F/UTP CAT6, 23AWG Solid CAP Conductor, Blue PVC Jacket, 300M Wood Drum

Application

Premise Horizontal Cable, Ethernet 1000BASE-TX, Ethernet 10BASE-T, PoE++, PoE+, PoE

General

Cable Type	Category 6
Operating Frequency	250 MHz Max.
Conductor Material	Solid CAP-Electroplated
Number of Pairs	4
Insulation Material	HDPE
Insulation Color	Blue, White/Blue; Orange, White/Orange; Green, White/Green; Brown, White/Brwon.
Separator	LDPE
Wrapping	PET Tape
Drain Wire	Solid CCA
Shielding	Aluminium Foil
Rip Cord	Yes
Jacket Material & Color	PVC (Blue)

Dimensions

Conductor Diameter	0.57 mm
Insulation Diameter	1.10 mm
Insulation Thickness	0.26 mm
Drain Wire Diameter	0.50 mm
Diameter Over Jacket	7.45 mm
Jacket Wall Thickness	0.65 mm

Mechanical Characteristics

Operating Temperature	-20°C to +70°C
Bend Radius	37 mm | 74 mm
Pull Tension	100 N Max.
Before Aging	
Tensile Strength	≥9.5 Mpa
Elongation	≥125 %
After Aging (110℃±0.2℃, 168h)	
Tensile Strength	≥70% of Unaged
Elongation	≥70% of Unaged
UV Resistance	ISO4892-3 (500 hours)

Electrical Characteristics

Transmission Standards	ANSI/TIA-568.2-D (85M Fluke CHANNEL)
Operating Voltage	80V Max.
Conductor DC Resistance	120 Ohms / KM

DC Resistance Unbalance	3% Max.
Insulation Resistance	5000 Vac | 2500 Vdc Min.
Dielectric Strength	1500 Vac | 2500 Vdc Min.
Mutual Capacitance	5.6 nF/100m
Pair to Ground Capacitance Unbalance	330 pF/100m
Velocity of Propagation	69% Nominal
Delay Skew	45 ns Max.

Standard and Compliance

RoHS 3 (EU 2015/863)	Compliant
REACH	Compliant
CE	Compliant

OEM Information

Item	Remarks
CPR Classification	NA
Jacket Color	Customization
Marking on Cable Jacket	Customization
Packing Length	100M, 305M or 500M, or Customization
Inner Packing Material	Reel-in-Box, Wooden Reel, or Customization
Outer Packing Material	Export-Carton, Pallet, as optional
Labels	Customization

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