molex PowerCat™ 6 U/FTP Cable

Features and Benefits

PowerCat 6 U/FTP 4 Pair cable has been designed to support Category 6 transmission systems. Each pair is wrapped in foil and the four foil wrapped pairs and drain wire are covered with either a PVC or LS0H sheath. A cross-member is provided to keep individual pairs separated for the reduction of NEXT and ELFEXT. The cable is available in PVC and LS0H sheaths on 500m reels.

- Shielded 4 pair PVC and LS0H cable
- Central separator for the reduction of NEXT & ELFEXT
- Colour coded for ease of termination
- 500 metre reel

Commercial Standards

TIA/EIA 568-B.2.1, ISO/IEC 11801:2002, EN 50173:2002

Fire Propagation Tests

IEC 60332-1

Technical Information

Mechanical Characteristics

Conductor Size: 23 AWG
Primary Insulation: Polyolefin
Nominal O.D.:   1.16mm
Screen Material: Aluminium Foil
Drain Wire: Solid tin coated copper wire
Sheath Type: PVC or LS0H
Nominal O.D: 7.2mm
Operating Temperature: -20° to +75°C
NVP: 75-77%
Maximum Pulling force: 100N

Electrical/Optical Characteristics

D.C. Resistance: 72Ω/Km @ 20°C

Crosstalk (dB)
@ 1MHz: 84.3
@ 25MHz: 63.3
@ 100MHz: 54.3
@ 250MHz: 48.3
Insertion Loss (dB/100m)
@ 1MHz: 1.65
@ 25MHz: 9.0
@ 100MHz: 19.2
@ 250MHz: 31.0
PS NEXT
@ 1MHz: 82.3
@ 25MHz: 61.3
@ 100MHz: 52.3
@ 250MHz: 46.3
ELFEXT
@ 1MHz: 80
@ 25MHz: 57
@ 100MHz: 43
@ 250MHz: 37
PS ELFEXT
@ 1MHz: 77
@ 25MHz: 54.0
@ 100MHz: 40.0
@ 250MHz: 34
Return Loss
@ 1MHz: 25
@ 25MHz: 30
@ 100MHz: 26
@ 250MHz: 25.0

Skew: 45ns/100m
Shipping Weight (500 reel): ±28.5kg

ORDERING INFORMATION

Order No.	SAP No.	Description
CAA-00328	0181700049	PowerCat 6 U/FTP Cable, 4 Pair, PVC, 500m Reel - Grey
CAA-00327	0181700050	PowerCat 6 U/FTP Cable, 4 Pair, IEC 332.1 LS0H, 500m Reel - Violet

MOLEX PREMISE NETWORKS