Features and Benefits

Molex Premise Networks PowerCat 6 F/UTP 4 Pair cable has been designed to support high speed data transmission systems. The cable is part of the PowerCat 6 F/UTP range of products that are designed to support a growing requirement for shielded cabling systems.

We recommend that the full range of PowerCat 6 F/UTP products are used in a system to maximise cabling performance, providing extended frequency response and enhanced bandwidth.

- Enhanced performance 4 pair Shielded LS0H cable
- Category 6 compliant, independently tested
- Colour coded for ease of termination
- 500 metre reel
- Reaction to Fire Euroclass: Eca

Commercial Standards

ISO/IEC 11801 amendment 2:2010
TIA/EIA-568-C.2

Fire Propagation Tests

EU Regulation 305/2011 (CPR)
EN 50575:2014+A:2016
Euroclass Eca
DoP No: MLXCES-2017-C-010 located on web
http://www.molexces.co.uk/about-us/our-compliance/cpr/dop-certificates/

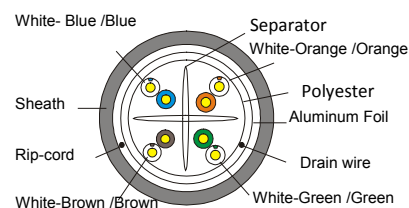## Technical Information

Mechanical Characteristics

Conductor Size: 23 AWG
Primary Insulation: Solid Polyethylene
Nominal O.D.:   1.12mm
Screen Material: Aluminium Mylar
Sheath Type: LS0H
Nominal O.D: 7.4mm +/-0.4mm
Operating Temperature: -30° to +60°
Installation Temperature: -20°C to +50°C
NVP: 70%
Sheath Colour: Violet RAL 4005

Maximum Pulling Force: 100N

Electrical/Optical Characteristics

D.C. Resistance : 9.38 ohm/100m max
DC Conductor Resistance Unbalance:
                    5% max

Technical Performance (100m)

Frequency (MHz)	RL ≥dB	ATT(20°C) ≤dB	NEXT ≥dB	PHASE DELAY ≤ns	PSNEXT ≥Db	ELFEXT ≥dB	PSELFEXT ≥dB
1	20.0	2.03	74.3	570.00	72.3	67.8	64.8
4.0	23.0	3.78	65.3	552.00	63.3	55.8	52.8
8.0	24.5	5.32	60.8	546.73	58.8	49.7	46.7
10.0	25.0	5.95	59.3	545.38	57.3	47.8	44.8
16.0	25.0	7.55	56.2	543.00	54.2	43.7	40.7
20.0	25.0	8.47	54.8	542.05	52.8	41.8	38.8
25.0	24.3	9.51	53.3	541.20	41.3	39.8	36.8
31.25	23.6	10.67	51.9	540.44	49.9	37.9	34.9
62.5	21.5	15.38	47.7	538.55	45.4	31.9	28.9
100	20.1	19.80	44.3	537.60	42.3	27.8	24.8
200	18.0	28.98	39.8	536.54	37.8	21.8	18.8
250	17.3	32.85	38.3	536.27	36.3	19.8	16.8

Skew: <45ns/100m
Shipping Weight 500m reel: 29.5kg

ORDERING INFORMATION

Order No.	SAP No.	Description
CAA-00251	181750035	PowerCat 6 F/UTP LS0H Cable Eca violet 500m reel

MOLEX CONNECTED ENTERPRISE SOLUTIONS