

Weather Resistant IPTV UTP CAT 6 25AWG

Caleb Cable

Caleb Cable Industrial Limited

Revision History

Part No:	Price NO:
Prepared by: CXY	Date: 2015/8/5
Approved by:	Page: 1 of 1

Product Code: Weather Resistant IPTV UTP CAT 6 25AWG

Product Description

Application:

Primary (Campus), Secondary (Riser), Tertiary (Horizontal)
 IEEE 802.3an: 10Base-T; 100Base-TX; 1000Base-T
 IEEE 802.5 16 MB; ISDN; TPDDI; ATM
 IEEE 802.3af-2002: POE; IEEE 802.3at: POE+

Reference Standard

ISO/IEC 11801: 2011; IEC61156-5:2009; ANSI/TIA-568-C.2
 EN50173; EN50288

Multi-construction

4 Pair

Cable Construction

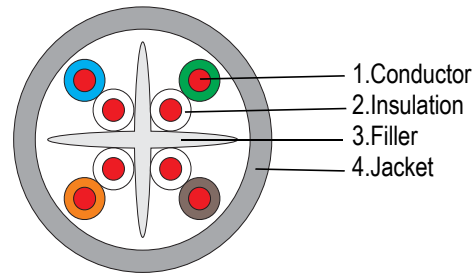
1.Conductor	Bare Copper
Construction (mm)	0.44±0.01
2.Insulation	HDPE
Insulation Dia.(mm)	0.78±0.08×2C Twist
3.Filler	Corss Member
4.Jacket	*WR-LSZH
Dia.(mm)	4.80±0.20
Jacket Color	According to customer
Color	
Insulation color are:	
Blue, White/Blue	Orange, White/Orange
Green, White/Green	Brown, White/Brown
Marking	
According to customer.	
Packaging	
305M/EasyReel Box	
Note	

1.WR-LSZH is an all weather resistant low smoke and halogen free compound ; It combines the features of UV resistance, water resistance and flame resistance. It's suitable for indoor and outdoor usage, and ideal for IP CCTV application;

2. Supports IEEE 802.3af: POE (12.95W) ; IEEE 802.3at: POE+ (25.5W);

3. Max.channel resistance (including horizontal cable, patch cable and connecting hardware etc.) is rated at 20 Ω for 802.3af: POE, and 12.5 Ω for 802.3at: POE+ respectively. Measured DC resistance at 118.7 Ω/Km for 25 AWG UTP Cat6 at 20°C; Pls adjust the cable length accordingly for POE usage, along with other factors. It's tested up to 150 meters with our UTP Cat6 25 AWG for signal and power of IP camera with standard POE switch.

Design



Electrical Characteristics

Performance

Frequency (MHz)	ATTENUATION (dB/80m)	NEXT (dB)	PSNEXT (dB)	RETURN LOSS (dB)
4.0	3.8	66.3	63.3	23.0
10.0	6.0	60.3	57.3	25.0
16.0	7.6	57.2	54.2	25.0
20.0	8.5	55.8	52.8	25.0
31.3	10.7	52.9	49.9	23.6
62.5	15.5	48.4	45.4	21.5
100.0	19.9	45.3	42.3	20.1
155.5	25.3	42.4	39.4	18.8
175.0	27.1	41.7	38.7	18.4
200.0	29.1	40.8	37.8	18.0
250.0	33.0	39.3	36.3	17.3

Frequency (MHz)	ELFEXT (dB/80m)	PS ELFEXT (dB/80m)
4.0	56.0	53.0
10.0	48.0	45.0
16.0	43.9	40.9
20.0	42.0	39.0
31.3	38.1	35.1
62.5	32.1	29.1
100.0	28.0	25.0
155.5	24.2	21.2
175.0	23.1	20.1
200.0	22.0	19.0
250.0	20.0	17.0

Note: The inspection will be according to TIA Cat 6 Perm.Link & ISO 11801 PL Class E of Fluke at 80m

Max.Conductor DC Resistance at 20°C (Ω/Km)	<132.4
Rated Temperature(°C)	60
Velocity ratio	70%
Impedance(Ω)	1-100MHz 100±15 100-250MHz 100±20

UL File NO. E334179
 Fire Performance: IEC60332-1 & CM
 Smoke Density: IEC61034
 Halogen Free: IEC60754
 UV Resistant
 Water proof

