

Weather Resistant IPTV UTP CAT 6 24AWG



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 24AWG

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)	0.52±0.01
2. Insulation	HDPE
Insulation Dia.(mm)	0.93±0.08×2C Twist
3. Filler	Corss Member
4. Jacket	*WR-LSZH
Dia.(mm)	6.0±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

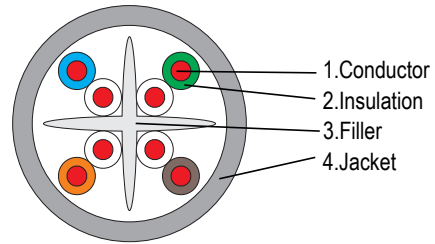
Note:

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 85.7 Ω/Km for 24 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 24 AWG for signal and power of IP camera with standard POE switch.

Design



Electrical Characteristics

Performance				
Frequency (MHz)	ATTENUATION (dB/100m)	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/100m)	PS ELFEXT (dB/100m)		
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		

Max. Conductor DC Resistance at 20°C (Ω/Km)	<97.6
Rated Temperature (°C)	60
Velocity ratio	70%
Impedance(Ω)	1-100MHz: 100±10 100-250MHz: 100±15

UL File NO. E3341/9
 Fire Performance: IEC 60332-1 & CM
 UV Resistant
 Waterproof



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