

REVISION INFORMATION			
Rec.	Rec. Date	Modified By	Brief Description

**Overview**

Bandwidth: 500MHz  
 OD: 7.0mm  
 Conductor: 23AWG  
 Approvals: RoHS  
 Connector: 50U" gold plated RJ45 connector

**Physical Characteristics**

- Cable Type – CAT6A UTP
- Connector Type(s) – RJ45
- Wiring Scheme – T568B
- Temperature Rating
  - Installation: 0°C~50°C
  - Operation: -40°C~80°C
- Voltage Rating – 30V

**Conductor (Qty. 4 twisted pair)**

- Conductor Type – 23AWG(1/0.57±0.008mm), Solid BC
- Insulation – HDPE
- Diameter – 1.02±0.05mm
- Pair Identification:
  - Pair1=Orange, Orange-White
  - Pair2=Blue, Blue-White
  - Pair3=Green, Green-White
  - Pair4=Brown, Brown-White
- Voltage Rating – 30V

**Connector Type (Qty. 2)**

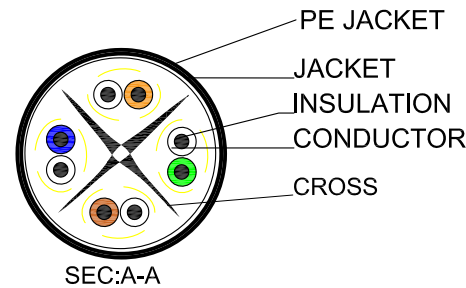
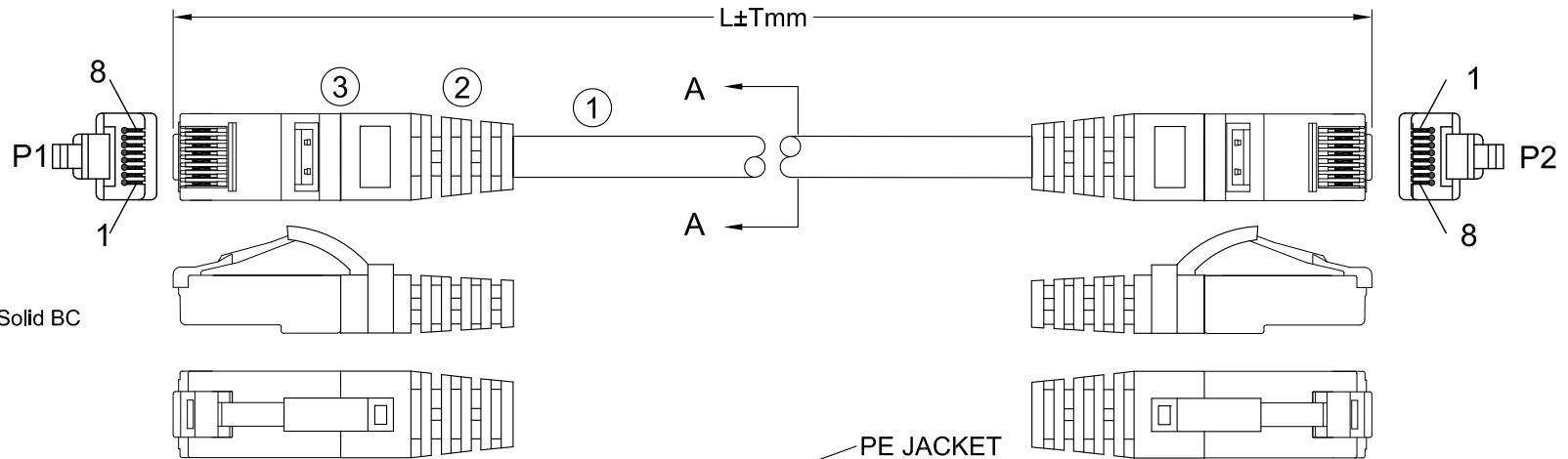
- Connector Type – 8P8C (RJ45)
- Gender – Male
- Connector Material – PC
- Contact Material – Phosphor copper,50U" Gold Plating
- Hood Material - Molded PVC

**Overall Cable**

- Jacket – PVC+PE
- Minimum Average Thickness – 0.75mm
- Int Diameter – 5.5± 0.15mm
- Outer Diameter – 7.0 ± 0.2mm

**Electrical Characteristics**

- Conductor DC Resistance – 11.25Ω/100m (maximum)
- Impedance – 100Ω
- Capacitance – 5600pf/100m
- Propagation Delay – 545ns/100m (maximum)
- Delay Skew – 45ns/100m (maximum)
- PASS DSX 8000 Channel Test.
- Support 100W PoE++



TOLERANCE:			
LINEAT:		ANGULAR:	
X. =±1		X.° =±1°	
.X =±0.5		.X° =±0°30'	
.XX=±0.05			
FILLET:		CHAMFER:	
R2=RAD.2mm		C0.5=CHAM0.5mm	
R5=RAD.5mm		C1=CHAM1mm	
XR=MAX RAD.			

P1	P2 T568B
1 ——— 1	WHITE/ORANGE
2 ——— 2	ORANGE
3 ——— 3	WHITE/GREEN
4 ——— 4	BLUE
5 ——— 5	WHITE/BLUE
6 ——— 6	GREEN
7 ——— 7	WHITE/BROWN
8 ——— 8	BROWN

TOLERANCE GENERALES					
LENGTH(M)	0<L<1	1≤L<2	2≤L<5	5≤L<10	L≥10
<b>TOLERANCE</b>	+35/-15mm	+35/-20mm	+35/-30mm	±50mm	±80mm
ITEM NO:	100W PoELAN Outdoor CAT.6A U/UTP 23AWG Ethernet Cable	DRAWER DATE	FW	20240226	

3	RJ45 PLUG: 8P8C 50U" GOLD PLATED TWO-PIECE PLUG.
2	MOLDED:PVC MOLDED BOOT .
1	CABLE: CAT6A UTP 4P/23AWG(1/0.57±0.008BC) +CROSS OD=Ø7.0±0.2MM PVC+PE JACKET.
NO.	SPECIFICATION
	BOM LIST

