

# RoHS COMPLIANT

## Overview

Bandwidth: 500MHz  
 OD: 8.5mm  
 Conductor: 23AWG  
 Approvals: RoHS  
 Connector: 50U"gold plated RJ45 connector

## Physical Characteristics

- Cable Type – CAT6A S/FTP
- Connector Type(s) – RJ45
- Wiring Scheme – T568B
- Temperature Rating
  - Installation: 0°C~50°C
  - Operation: -20°C~60°C
- Voltage Rating – 30V

## Conductor (Qty. 4 twisted pair)

- Conductor Type – 23AWG(7/0.22±0.008mm), Stranded BC
- Insulation – FMPE
- Diameter – 1.55±0.05mm
- Pair Identification:
  - Pair1=Orange, White
  - Pair2=Blue, White
  - Pair3=Green, White
  - Pair4=Brown, White

## Connector Type (Qty. 2)

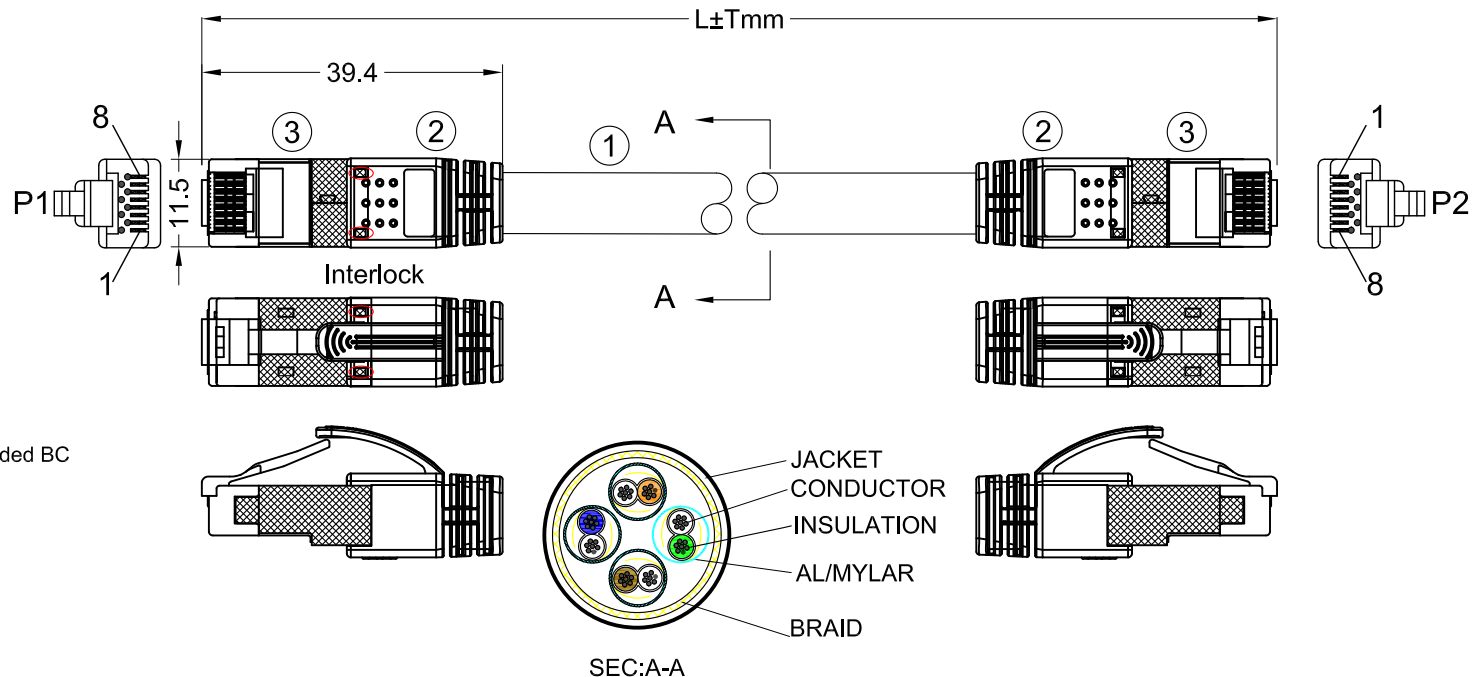
- Connector Type – Shielded 8P8C (RJ45)
- Gender – Male
- Connector Material – PC-94V-2
- Contact Material – Phosphor Copper, Nickel Plating-100µm Gold Plating – 50µm
- Hood Material – Black Assemble Boot

## Overall Cable

- Jacket – CM-PVC/LSZH
- Minimum Average Thickness – 0.60mm
- Outer Diameter – 8.5 ± 0.20mm

## Electrical Characteristics

- Conductor DC Resistance – 8.92Ω/100m (maximum)
- Impedance – 100Ω
- Capacitance – 5600pf/100m
- Propagation Delay – 545ns/100m (maximum)
- Delay Skew – 45ns/100m (maximum)
- Pass Fluke DSX-8000 Channel Test
- Support 100W PoE++



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
S	S SHIELDED

COLOUR	LENGTH(M)	TOLERANCE	LENGTH(M)	TOLERANCE
/	0.5	+20/-15mm	45	±80mm
	1	±20mm	50	±80mm
	2	±30mm	60	±80mm
	3	±30mm		
	5	±50mm		
	7.5	±50mm		
	10	±80mm		
	15	±80mm		
	20	±80mm		
	30	±80mm		
35	±80mm			

3	RJ45 PLUG: 8P8C 50U" GOLD PLATED TWO-PIECE PLUG; SHIELDED NICKEL PLATING.
2	MOLDED: BLACK ASSEMBLE BOOT .
1	CABLE: CAT6A S/FTP[1P/23AWG(7/0.22±0.008MM Stranded BC)+AL/MYLAR]*4+BRAID(16*10/0.10±0.008TC) OD:Ø8.5±0.2MM CM-PVC/LSZH JACKET.
NO.	SPECIFICATION
	BOM LIST

**DIREKTRONIK**  
 Dataprodukter utöver det vanliga