



UN LINK

PRODUCT DATA SHEET

1. Construction Details

Component	Description
Conductor	Solid Bare Copper, 24 AWG (0.51mm \pm 0.03mm)
Insulation	High-Density Polyethylene (HDPE)
Pairing	2 Insulated Conductors Twisted Together (4 Pairs Total)
Individual Shield	Aluminum Foil Shield on Each Pair
Overall Shield	Braided Aluminum Shield (65% Coverage)
Separator	Cross Filler / PE Spine (Optional, for Cat 6A)
Drain Wire	Tinned Copper, 24 AWG (optional for grounding)
Jacket	PVC or LSZH (Low Smoke Zero Halogen)
Overall Diameter	7.5mm \pm 0.6mm (Typical for Cat 6A S/FTP)
Color	As per customer requirement

2. Electrical Characteristics

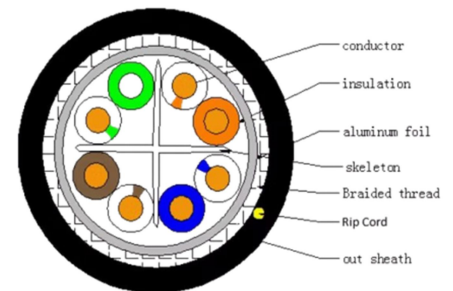
Parameter	Value
Impedance	100 \pm 15 ohms
Capacitance	Max. 5.6 nF/100m
DC Resistance	Max. 9.38 ohms/100m
Resistance Unbalance	Max. 5%
Pair-to-Ground Cap. Unbalance	Max. 330 pF/100m
Propagation Delay	Max. 45 ns/100m
Delay Skew	Max. 25 ns/100m

3. Transmission Performance (at 500 MHz)

Frequency (MHz)	Insertion Loss (dB)	NEXT (dB)	PSNEXT (dB)	ACR (dB)	Return Loss (dB)
1	2.0	65.3	63.3	63.3	20.0
100	21.9	44.3	42.3	22.4	14.0
250	35.7	39.8	37.8	4.1	12.0
500	53.8	35.3	33.3	-18.5	10.0

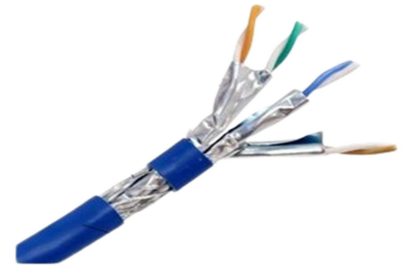
4. Standards Compliance

- ISO Standard
- ANSI/TIA-568.2-D (Cat 6A)
- CE Compliant
- Fire Retardant Jacket Options: LSZH / FRPVC



5. Applications

- 10GBASE-T Ethernet
- PoE / PoE+ / PoE++
- Voice / Video / Data Transmission
- High-Speed Networking for Data Centers



6. Packaging

Option	Details
Standard Length	305m (1000ft) (+/- 5%)
Packaging	Wooden Reel / Pull Box
Marking	Sequential meter marking
Color	Available in Grey/Black Color