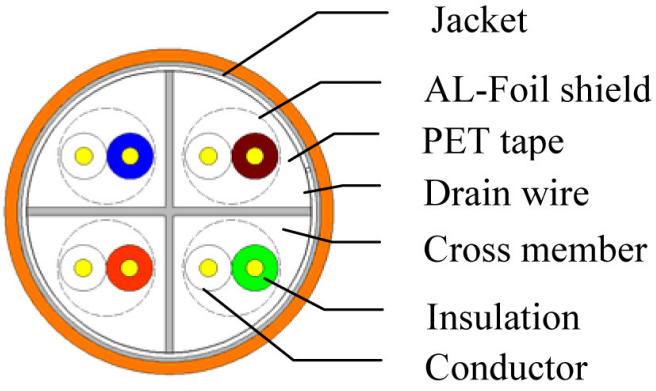
Category 6 F/UTP PVC & LSZH

Features



Characteristics and advantages

- Category 6 F/UTP 4 Pair screened cable
- ISO11801 & TIA/EIA–568-C.2, UL Subject 444
- Generic cabling systems. Including 10Base-T, 100Base–T, 1000Base-T, ATM & Token Ring, IEEE 802.3 af (PoE), IEEE 802.3 at (PoE+)

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Specifications

Construction

Conductor	≥0.555mm annealed bare copper (23AWG)
Insulation	Three pairs Polyethylene (HDPE) and one pair Foam PE
Colour Code	White -Blue, White -Orange, White -Green, White -Brown (Strip of White wire)
Shield	PET tape AL-Foil shield with Tinned copper Tinned copper wire diameter 0.40mm
Outer Jacket	PVC Compound or LSZH Jacket, RoHS Compliance
Overall Diameter	Nominal Diameter 7.2+/- 0.4mm
Nominal Jacket thickness	Jacket Thickness: 0.50mm +/- 0.05mm
Additional Components	Cable is supplied without ripcord unless specified by the customer Central separator for improved performance.
Printing	Jacket printed Black with Legend as usual Jacket's colour as per customer requirement

Mechanical Characteristics

Maximum Pulling Force	100 N
Minimum Bending Radius	8*OD (Installation) 4*OD (Operation)
Nominal Weight	55 KG/KM
Operating Temperature	-20Deg C ~ +75 Deg C
Storage Temperature Range	-20°C To +75°C
Installation Temperature	-5 Deg C ~ +50 Deg C

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Specifications

Environmental properties and Fire Performances

PVC Fire Performance	IEC60332-1-2 or UL CMX or CM or CMR
LSZH requirement	IEC60332-1-2, IEC 61034-2, IEC 60754-1&-2

Low Frequency and DC (at 20℃)

D.C. Resistance Conductor	≤9.6Ω/100m
Resistance Unbalance:	<2 %
Insulation Resistance	≥ 5000 MΩ.km
Mutual Capacitance	< 5.6 nF/100M
Capacitance Unbalance	< 160 pF/100m
Characteristic Impedance (Ohms)	100 ± 15
Delay Skew	≤ 45ns
Voltage Rating	300V

Electrical Performance at 20C

Transmission Frequency (MH_Z)	1	4	10	16	20	31.25	62.5	100	200	250
NEXT dB	74.3	65.3	59.3	56.2	54.8	51.9	47.4	44.3	39.8	38.3
Characteristic Impedance (ohm)	100+/- 15									
Attenuation dB/100m	2.1	3.8	5.9	7.5	8.4	10.7	15.4	19.8	29.0	32.8
Return Loss dB	20	23	25	25	25	23.6	21.5	20.1	18	17.3
PSNEXT dB	72.3	63.3	57.3	54.2	52.8	49.9	45.4	42.3	37.8	36.3
ACRF dB	67.8	55.8	47.8	43.7	41.8	37.9	31.9	27.8	21.8	19.8
PS ACRF dB	64.8	52.8	44.8	40.7	38.8	34.9	28.9	24.8	18.8	16.8
Delay ns/100m	570	552	545	543	542	540	539	538	537	536
Skew ns/100m	45									
NVP	65%									

Cable Length

305m as standard length as per customer requirement

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Ordering Information

Number	Description
R3722160	CAT6, F/UTP, Horizontal Cable, PVC, 500m Reel
R3722165	CAT6, F/UTP, Horizontal Cable, PVC, 305m Reel
R3722060	CAT6, F/UTP, Horizontal Cable, LSZH, 500m Reel
R3722065	CAT6, F/UTP, Horizontal Cable, LSZH, 305m Reel