COMMUNICATION CABLE - 4PR 24AWG SF/UTP CAT6 LSZH PATCH CABLE

The complete requirements for procuring the wire described herein shall consist of this document and the issue in effect of the referenced specifications. This document takes precedence over documents referenced herein.

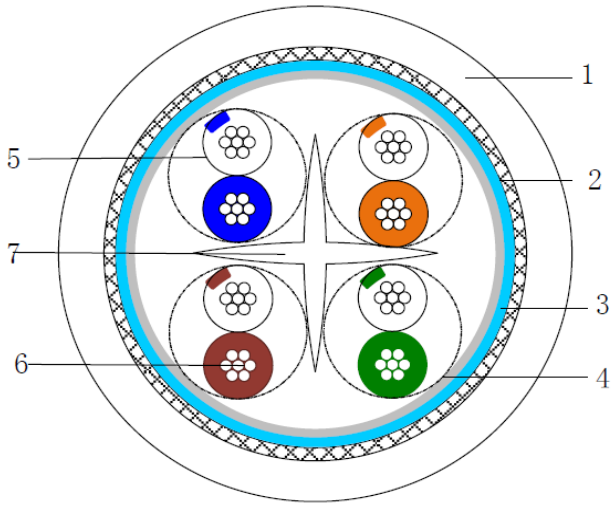
PRODUCT DETAILS

DESCRIPTION

Application:	100Base-T4, 100Base-TX, 100VG-AnyLAN, 1000Base-T, 1000Base-TX 155Mbps ATM, 622Mbps ATM
Rated temperature:	75°C
Reference Standard:	61156-6, ISO/IEC 11801
Flammability Rating:	IEC 60332-3-25 & IEC 60332-1-2

Stranded TinnedCopper Conductor
Colour-coded PE Insulation
LSFRZH Jacket
Packaging: Per customer request

CROSS SECTION



1	Jacket
2	Braid
3	AL-Foil
4	Polyester Tape
5	Insulation
6	Conductor
7	Filler

PHYSICAL CHARACTERISTICS

Structure	Construction	SF/UTP
	Number of Pairs	4 Pairs
Conductor	AWG	24 AWG
	Conductor material	Stranded Tinned Copper
	Conductor dimension(mm)	(7/0.20) ± 0.008mm
Insulation	Insulation material	HDPE
	Insulation dimension(mm)	1.14 ± 0.05 mm
	Insulation Colour	1.White/Blue & Blue
	(Stripe Marking)	2.White/Orange & Orange
		3.White/Green & Green
		4.White/Brown & Brown
Cabling	Twisting lay length	≤ 30 mm
	Cabling lay length	≤ 200 mm
Filler	Material	PE
Binder	Material	Polyester Tape
Shield	Individual shield & material	N/A
	Primary overall shield & material	AL-Foil
	Secondary shield & material	Tinned Copper Wire
	Coverage	≥ 85%
Outer Jacket	Outer Jacket material	LSFRZH
	Outer Jacket Thickness (mm)	1.00 mm Nom.
	Overall Nom Dimension (mm)	9.10 ± 0.50mm
	Outer Jacket Rip cord	N/A
	Outer Jacket Colour	Black
Mechanical Characteristics	Operating Temp Range	-20°C to +75°C
	Bulk Cable weight	100 kg/km
	Max. recommended pulling tension	80 N
	Min. bend radius (Install)	8 x O.D.
	Tensile Strength	≧ 9 Mpa
	Elongation	≧ 100%
	Ageing Condition	100°C x 168hrs
	After Ageing Tensile Strength	≧ 70% of Unaging
	After Ageing Elongation	≧ 50% of Unaging
	Cold Bend	No Cracking (-20°C 4h)
Electrical Characteristics	Nom. mutual capacitance	≦ 5.6 nF/100m (@1kHz)
	Pair-ground capacitance unbalance	≦160 pF/100m
	Nominal velocity of propagation	65%
	Max. delay skew	45 ns/100m
	Max. Conductor DC resistance	145 Ω/km (@ 20°C)
	Max. Conductor resistance unbalance	2%
	Min. insulation resistance	5000 MΩ·km
	Max. operating voltage - UL	300 V

JACKET MARK

"TE CONNECTIVITY - TECC0027C6 - 4PR 24AWG SF/UTP CAT 6 CABLE LSZH - YEAR OF MANUFACTURE - BATCH NUMBER - METRE MARK"

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ELECTRICAL CHARACTERISTICS CONTINUED

Frequency	Impedance Upper Limit	Impedance LowerLimit	ATT	RL	NEXT	PS NEXT	ELFEXT	PS ELFEXT	PD
(MHz)	Zu (Ω)	Zl (Ω)	(Db/100m)	(dB Min)	(dB Min)	(dB Min)	(dB Min)	(dB Min)	(ns/100m Max)
4	115.2	86.8	5.8	23.0	66.3	63.3	56.0	53.0	552.0
8	112.6	88.8	8.1	24.5	61.8	58.8	49.9	46.9	546.7
10	111.9	89.4	9.0	25.0	60.3	57.3	48.0	45.0	545.4
16	111.9	89.4	11.4	25.0	57.2	54.2	43.9	40.9	543.0
20	111.9	89.4	12.8	25.0	55.8	52.8	42.0	39.0	542.0
25	113.2	88.3	14.4	24.2	54.3	51.3	40.0	37.0	541.2
31.25	114.6	87.2	16.1	23.3	52.9	49.9	38.1	35.1	540.4
62.5	120.2	83.2	23.3	20.7	48.4	45.4	32.1	29.1	538.6
100	125.3	79.8	29.9	19.0	45.3	42.3	28.0	25.0	537.6
200	135.7	73.7	43.8	16.4	40.8	37.8	22.0	19.0	536.5
250	140.0	71.4	49.7	15.6	39.3	36.3	20.0	17.0	536.3

Remark : Cable that meet the requirements of the template are not required to be measured for return loss; alternately cables that meet the return loss requirements are not required to be measured for characteristic impedance.

Mechanical performance Requirements for the tests for outer jacket.

EN 45545 R15&R16 HL3	T09.01 EN 60332-1-2	Single vertical flame	IEC 60332-1-2
	T09.03 EN50305 (for	Bunched cable flame	IEC 60332-3-25
	T13 EN 61034-2	Smoke emission	⩾ 70%
	T15 EN 50305	Toxicity index	ITC ⩽ 6
Ozone resistar	(0.00015-0.00025%)(40±-2)℃	No Crack	EN50305 7.4.2
Mineral oil resistance	IRM902/(25)℃X24h	Tensile strength Variation ⩽±30%.	EN 60811-2-1 10
		Elongation at break Variation ⩽±40%.	
Fuel resistance	IRM903/(25)℃X24h	Tensile strength Variation ⩽±30%.	
		Elongation at break Variation ⩽±40%.	
Cold bend	-（20±2）℃,8D	No Crack	EN 60811-1-4 8.1
Assessment of halogens	HCl and HBr	⩽0.5%	EN50267-2-1
	pH	⩾4.3	EN50267-2-2
	Conductivity	⩽10μS/mm	

Approval Electronic sign off - no signatures will appear.

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