COMMUNICATION CABLE - FOUR PAIR 26AWG S/FTP CAT7 LSZH

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, 10 Gb Ethernet

Rated temperature: 80°C

Reference Standard: IEC 61156-6, IS0/IEC 11801

Flammability Rating: EN 45545-2 R15/R16 HL3

Ozone Resistance: EN 50306-4 Procedure B

Oil resistance: EN 50306-4 24h/25°C IRM 902

Oil resistance: EN 50306-4 24h/25°C IRM 903

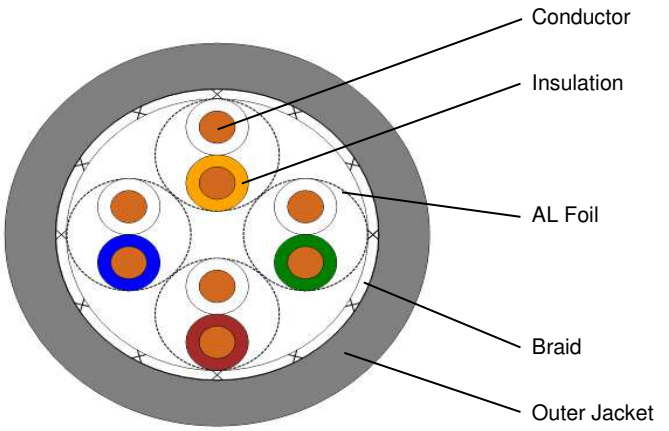
Stranded Tinned Copper Conductor

Colour-Coded PE Insulation

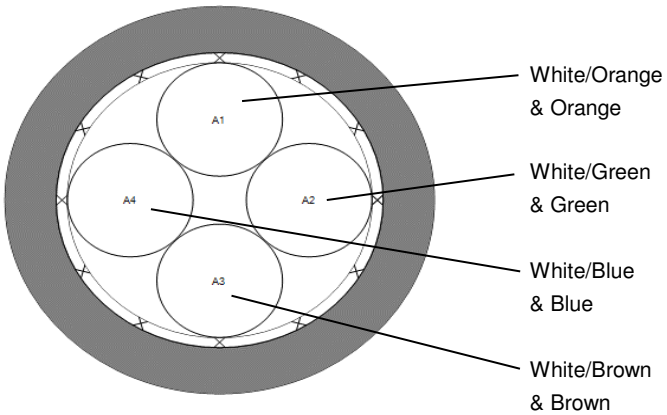
LSFRZH Jacket

Packaging: Per Customer Request

CROSS SECTION



INSULATION COLOURS



PHYSICAL CHARACTERISTICS

Structure	Construction	S/FTP
	Number of Pairs	4 Pairs
Conductor	AWG	26 AWG
	Conductor material	Stranded Tinned Copper
	Conductor dimension(mm)	7/0.155 ± 0.02mm
Insulation	Insulation material	Foamed PE
	Insulation dimension(mm)	0.99 ± 0.05 mm
	Nom. Thickness (mm)	0.28 mm
Cabling	Twisting lay length	≤ 30 mm
	Cabling lay length	≤ 200 mm
Filler	Material	N/A
Binder	Material	N/A
Shield	Individual shield & material	AL-Foil
	Primary overall shield & material	Stranded Tinned Copper
	Shield nom. Coverage	35% Min.
	Drainwire	N/A
Outer Jacket	Outer Jacket material	LSFRZH
	Outer Jacket Thickness (mm)	1.0 mm Nom
	Overall Nom Dimension (mm)	7.2 ± 0.3mm
	Outer Jacket Rip cord	N/A
	Outer Jacket Colour	Per Customer Request

MECHANICAL CHARACTERISTICS

Outer Jacket	Operating Temp Range	-20°C to +80°C
	Bulk Cable weight	54 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 cracks -20°C/4hrs

ELECTRICAL CHARACTERISTICS

Finished Cable	Nom. mutual capacitance	≦ 56 pF/m (@1kHz)
	Pair-ground capacitance unbalance	≦160 pF/100m
	Nominal velocity of propagation	65%
	Max. delay skew	25 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 - TECC0018C7 - 4PR 26AWG STRANDED CAT 7 CABLE - YEAR OF MANUFACTURE - BATCH NUMBER"

Tyco Electronics UK Ltd
Faraday Road
Dorcan
SWINDON
SN3 5HH
Tel: +44 (0)1793 528171
Fax: +44 (0)1793 572516

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ELECTRICAL CHARACTERISTICS CONTINUED

Frequency	Characteristic Impedance Upper limit	Characteristic Impedance Lower limit	ATT	RL	NEXT	PS NEXT	FEXT	PD
(MHz)	Zu (Ω)	Zl (Ω)	(dB/100m)	(dB Min)	(dB Min)	(dB Min)	(dB Min)	(ns/100m Max)
1	-	-	3.0	20.0	78.0	75.0	70.0	570.0
4	115.2	86.8	5.6	23.0	78.0	75.0	70.0	552.0
8	112.6	88.8	7.9	24.5	78.0	75.0	70.0	546.7
10	111.9	89.4	8.8	25.0	78.0	75.0	70.0	545.4
16	111.9	89.4	11.1	25.0	78.0	75.0	70.0	543.0
20	111.9	89.4	12.4	25.0	78.0	75.0	70.0	542.0
25	113.2	88.3	13.9	24.2	78.0	75.0	70.0	541.2
31.25	114.6	87.2	15.6	23.3	78.0	75.0	70.0	540.4
62.5	120.2	83.2	22.3	20.7	75.5	72.5	70.0	538.6
100	125.3	79.8	28.5	19.0	72.4	69.4	70.0	537.6
200	135.7	73.7	41.2	16.4	67.9	64.9	70.0	536.5
250	140.0	71.4	46.5	15.6	66.4	63.4	70.0	536.3
300	139.8	71.5	51.3	15.6	65.2	62.2	70.0	536.1
600	139.8	71.5	75.1	15.6	60.7	57.7	70.0	535.5

Note 1: 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.
Note 2: If FEXT loss is greater than 70dB, ACR-F loss may not be measured.

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