COMMUNICATION CABLE - FOUR PAIR 24AWG U/FTP PVC CAT5e

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

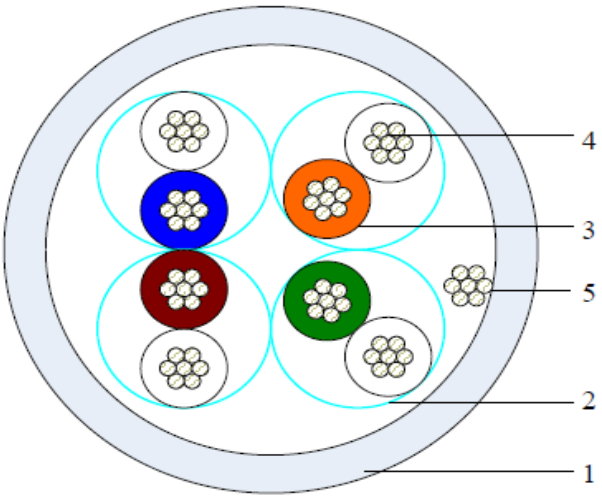
DESCRIPTION

Application: 100BASE-T4, 100BASE-TX, 100VG-AnyLAN, 1000Base-T (1 Gb Ethernet), 1000Base-TX 155Mbps ATM, 622Mbps ATM,

Rated temperature: 80°C
Reference Standard: 61156-6,ISO/IEC 11801
Flammability Rating: IEC 60332-1-2
UV Resistance: EN50289-4-17

Stranded Tinned Copper Conductor
Colour-coded Insulation
PVC Jacket
Packaging: Per customer request

CROSS SECTION



1	Jacket
2	AL-Foil
3	Insulation
4	Conductor
5	Drain Wire

PHYSICAL CHARACTERISTICS

Structure	Construction	U/FTP
	Number of Pairs	4 Pairs
Conductor	AWG	24 AWG
	Conductor material	Stranded Tinned Cooper
	Conductor dimension(mm)	(7/0.2) ± 0.02mm
Insulation	Insulation material	PE
	Insulation dimension(mm)	1.32 ± 0.05 mm
	Nom. Thickness (mm)	0.24 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	N/A
	Shield nom. Coverage	N/A
	Drainwire	(7/0.2) ± 0.02mm
Outer Jacket	Outer Jacket material	PVC
	Outer Jacket Thickness (mm)	0.80 mm Nom.
	Overall Nom Dimension (mm)	7.50 ± 0.30 mm
	Outer Jacket Rip cord	N/A
	Outer Jacket Colour	Per Customer Request

MECHANICAL CHARACTERISTICS

	Storage Temp Range	-40°C to +80°C
	Operating Temp Range	-20°C to +80°C
	Cable weight	56kg/km
	Max. recommended pulling tension	100 N
	Min. bend radius (Install)	10 x O.D.
	Heat Ageing	IEC 60811-401
	UV Resistance	EN 50289-4-17
	Cold Bend	IEC 60811-504
	Heat Shock	IEC 60811-509

ELECTRICAL CHARACTERISTICS

Finished Cable	Nom. Mutual Capacitance	≦5.6 nF/100m (@1kHz)
	Pair-Ground Unbalance	≦ 160 pF/100m
	Nom. Velocity of Propagation	65%
	Max. Delay Skew	45 ns/100m
	Max Conductor DC Resistance	93.8 Ω/km (@20°C)
	Resistance Unbalance	≦ 2% (@20°C)
	Min. Insulation Resistance	5000 MΩ.km
	Dielectric Strength (2 sec.)	2.5 KV D.C.
	Max. Operating Voltage - UL	300 V

JACKET MARK

"TE CONNECTIVITY - TECC0015C5 - 4PR 24AWG STRANDED CAT 5e
ANSI/TIA 568-C.2, EN 50173-6, ISO/IEC 11801 80°C
CABLE - YEAR OF MANUFACTURE - BATCH NUMBER-<metre mark>"

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	Impedance	ATT	RL	NEXT	PS NEXT	ELFEXT	PS ELFEXT	PD
(MHz)	(Ω)	(dB/100m)	(dB Min)	(dB Min)	(dB Min)	(dB Min)	(dB Min)	(ns/100m Max)
1	100±15	2.5	20.0	65.3	62.3	63.8	60.8	570.0
4	100±15	4.9	23.0	56.3	53.3	51.8	48.8	552.0
8	100±15	6.9	25.0	50.3	47.3	43.8	40.8	545.4
10	100±15	7.8	25.0	50.3	47.3	43.8	40.8	545.4
16	100±15	9.9	25.0	47.2	44.2	39.7	36.7	543.0
20	100±15	11.1	25.0	45.8	42.8	37.8	34.8	542.0
25	100±15	12.5	24.3	44.3	41.3	35.8	32.8	541.2
31.25	100±15	14.1	23.6	42.9	39.9	33.9	30.9	540.4
62.5	100±15	20.4	21.5	38.4	35.4	27.9	24.9	538.6
100	100±15	26.4	20.1	35.3	32.3	23.8	20.8	537.6

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.

Approval Electronic sign off - no signatures will appear.

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