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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

		PROD	UCT DETAILS										
	DESCRIPTION			PHYSICAL CHARACTERIS	TICS								
plication:	100BASE-T4, 100BASE-TX, 100VG	i-AnyLAN,	Structure	Construction	U/FTP								
	1000Base-T, 1000Base-TX		0	Number of Pairs	4 Pairs								
	155Mbps ATM, 622Mbps ATM,			AWG	24 AWG								
	1 Gb Ethernet		Conductor	Conductor material	Stranded Annealed Coop								
Rated temperature: 80°C				Conductor dimension(mm)	7 / 0.20mm								
eference Standar	d: ANSI/TIA 568C-2.1, EN 50173-6, IEC	0 11801		Insulation material	Polyolefin								
ammability Ratin	g: IEC 60332-2-1		Insulation	Insulation dimension(mm)	1.32 ± 0.05 mm								
Resistance: EN				Nom. Thickness (mm)	0.24 mm								
anded Tinned C	opper Conductor		Cabling	Twisting lay length	≤ 30 mm								
lour-coded Insu	ation			Cabling lay length	≤ 200 mm								
'C Jacket			Filler	Material	N/A								
Packaging: Per customer request			Binder	Material	N/A								
			Shield	Individual shield & material	AL-Foil								
				Primary overall shield & material	Polyester Tape								
				Shield nom. Coverage	N/A								
				Drainwire	7 / 0.20 mm								
			Outer Jacket	Outer Jacket material	PVC								
CROSS SECTIO	<u>DN</u>			Outer Jacket Thickness (mm)	0.80 mm Nom.								
	Co	onductor		Overall Nom Dimension (mm)	7.50 mm								
				Outer Jacket Rip cord	N/A								
		sulation		Outer Jacket Colour	Per Customer Reques								
			Μ	ECHANICAL CHARACTER	ISTICS								
			Outer Jacket	Storage Temp Range	-40°C to +80°C								
				Operating Temp Range	-20°C to +80°C								
				Cable weight	56kg/km								
		L Foil		Max. recommended pulling tension	100 N								
				Min. bend radius (Install)	10 x O.D.								
				Heat Ageing	IEC 60811-402								
				UV Resistance	EN 50289-4-17								
		olyester Tape		Cold Bend	IEC 60811-504								
				Heat Shock	IEC 60811-509								
		uter Jacket											
NSULATION CO			E	LECTRICAL CHARACTER	STICS								
			Finished Cable	Nom. mutual capacitance	≦24.6 pF/m (@1kHz)								
				Conductor DCR	$\leq 9.38\Omega/100m$								
				Max. operating voltage - UL	300 V								
	w	/hite/Orange		Max. operating voltage OE	000 1								
		Orange											
	a a a a a a a a a a a a a a a a a a a	orange											
		/hite/Green											
	12	Green											
				JACKET MARK	1								
		/hite/Blue											
			TE CONNECTI	VITY - TECC001505 - 4PB 244W	G STRANDED CAT 54								
& Blue White/Brown			"TE CONNECTIVITY - TECC0015C5 - 4PR 24AWG STRANDED CAT 5e ANSI/TIA 568C-2.1, EN 50173-6, ISO/IEC 11801 80°C CABLE - YEAR OF MANUFACTURE - BATCH NUMBER- <metre mark="">"</metre>										
									X	Brown			
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issue in effect of the referenced specifications. This document takes precedence over documents referenced herein.

ELECTRICAL CHARACTERISTICS CONTINUED

Frequency	Impedance	ATT	RL	PSNEXT	PSELFEXT	PSACR
(MHz)	(Ω)	(dB/100m)	(dB Min)	(dB Min)	(dB Min)	(dB Min)
1	100±15	2.5	20.0	62.3	60.8	59.8
4	100±15	4.9	23.0	53.3	48.7	48.4
8	100±15	6.9	24.5	48.8	42.7	41.9
10	100±15	7.8	25.0	47.3	40.8	39.5
16	100±15	9.9	25.0	44.3	36.7	34.4
20	100±15	11.1	25.0	42.8	34.7	31.7
25	100±15	12.5	24.3	41.3	32.8	28.8
31.25	100±15	14.1	23.6	39.9	30.9	25.8
62.5	100±15	20.4	21.5	35.4	24.8	15.0
100	100±15	26.4	20.1	32.3	20.8	5.9

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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