



Product: <u>10G7A02C</u> ☑

Category 7A Enhanced Cable, 4 Pair, S/FTP, LSZH Indoor CPR Cca

Product Description

Category 7A Enhanced Premise Horizontal Cable (1200MHz) 4-Pair, 23 AWG solid bare copper conductors, S/FTP, Foam Polyethylene insulation, each pair with Beldfoil® shield, overall tinned copper braid shield (30% coverage), LSZH jacket

Technical Specifications

Product Overview

Suitable Applications:		ding backbone cable; Support e - T, 10 Base - T, FDDI, ATM		plications, such as: 10GBase - T (10 Gigabit Ethernet), 1000Base - T (Gigabit	
Construction Details					
Conductor					
Element Siz		Material No. of Pairs			
Individual Shielded Pair 23 AV	VG Solid BC	- Bare Copper 4			
nsulation					
Element	Material	Nom. Insulation Diameter	Color Code		
Individual Shielded Pair PE -	Polyethylene (Foam)	1.45 mm (0.0571 in)	White & Blue, White & Orange, White & Gre	en, White & Brown	
Cable Core					
Description					
4 pairs twisted together					
nner Shield					
Element Shiel	d Type Ma	terial Coverage			
Individual Shielded Pair Tape	Bi-Laminate	e (Alum+Poly) 100%			
Table Notes: Aluminum facing outside					
Duter Shield					
Shield Type Material	Coverage				
Braid Tinned Copper (TC) 30%				
Duter Jacket					
Material		Nom. Diameter Ripcord			
LSZH - Low Smoke Zero Halog	en (Flame Retardant) 7.5 mm (0.30 in) Yes			
Overall Cable Diameter (Nominal):	7.5 mm (0.30 in)				
Electrical Characteristics					
Electricals					
Max. Conductor DCR	Aax. Mutual Capacit	ance Max. Capacitance Un	balance Nom. Characteristic Impedance		
95 Ohm/km (29 Ohm/1000ft)	6 pF/m (17 pF/ft)	160 pF/100m	100 Ohm		

De	lav

Max. Delay Skew	Nom. Velocity of Prop.
25 ns/100m	76%

High Frequency

Frequency [MHz]	Max. Insertion Loss (Attenuation) [dB/100m]	Min. NEXT [dB]	Min. PSNEXT [dB]	Min. ACR [dB]	Min. PSACR [dB]	Min. ACRF (ELFEXT) [dB]	Min. PSACRF (PSELFEXT) [dB]	Min. RL (Return Loss) [dB]	Min. TCL [dB]	Min. ELTCTL [dB]
1	2	78	75	75.9	72.9	78	75	20	40	35
4	3.7	78	75	74.3	71.3	78	75	23	34	23
10	5.8	78	75	72.2	69.2	75.3	72.3	25	30	15
16	7.3	78	75	70.7	67.7	71.2	68.2	25	28	10.9
31.2	10.3	78	75	67.7	64.7	65.4	62.4	23.6	25.2	5.1
62.5	14.6	78	75	63.4	60.4	59.4	56.4	21.5	22	
100	18.5	75.4	72.4	56.9	53.9	55.3	52.3	20.1	20	
155	23.2	72.5	69.5	49.3	46.3	51.5	48.5	18.8	18.1	
250	29.7	69.4	66.4	39.7	36.7	47.3	44.3	17.3	16	
500	42.8	64.9	61.9	22.2	19.2	41.3	38.3	17.3	16	
600	47.1	63.7	60.7	16.6	13.6	39.7	36.7	17.3		
1000	61.9	60.4	57.4	10.6		35.3	32.3	15.1		
1200	68.4	59.2	56.2			33.7	30.7	14.3		

Transfer Impedance

Frequency	Max. Transfer Im	pedance
1 Mhz	Max. 50 mOhm/m	
10 Mhz	Max. 100 mOhm/n	า
30 Mhz	Max. 200 mOhm/n	ı
100 Mhz	Max. 1000 mOhm/	m
Transfer Imp	pedance Class:	Grade 2
Screening C	Class:	Type lb
Table Notes	5:	Coupling

Voltage

Voltage Rating
72 V DC

Mechanical Characteristics

Temperature	
Operating Installation -30°C to +60°C 0°C To +50°C	
Bend Radius	
Stationary Min. Installation M	lin.
29 mm (1.1 in) 58 mm (2.3 in	
Max. Pull Tension:	110 N (25 lbf)
Bulk Cable Weight:	61 kg/km (41 lbs/1000ft)

Standards and Compliance

Environmental Suitability:	Indoor - Euroclass Dca			
Flammability / Reaction to Fire:	IEC 60332-1-2			
CPR Compliance:	PR Euroclass: Cca-s1a,d1,a1			
IEEE Compliance:	PoE: IEEE 802.3bt Type 1, Type 2, Type 3, Type 4			
Data Category:	Category 7A			
TIA/EIA Compliance:	ANSI/TIA 568.2-D			
ISO/IEC Compliance:	ISO/IEC 11801-1, IEC 61034-2 - Smoke Density Min Transmittance = 60%			
CENELEC Compliance:	EN 50173-1, Segregation class according EN50174-2 = d			
European Halogen Free Standards:	IEC 62821-1 Halogen Free Compliance = Yes, IEC 60754-1 - Halogen Amount = Zero, IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity = 2.5 µS/mm, IEC 60754-2 - Halogen Acid Gas Amount - Min. pH = 4.3			
European Directive Compliance:	EU CE Mark			
UK Regulation Compliance:	UKCA Mark			

Product Notes

Electrical values are expected performance based on cable testing and representative performance within a typical Belden system.

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