

Cat7 Shielded Solid Plenum Cable 85-700-120 BL

UL & CSA

Applications

Structure cabling for horizontal and building backbone cable
Transmission of digital and analogue for data, video and audio applications
Metal shielded and braided providing protection from EMI
Beyond IEEE 802.3 and 10GBASE-T and legacy speeds
CDDI / ATM / Token Ring
IEEE 802.3af(PoE) / IEEE 802.3at (PoE+)

Description

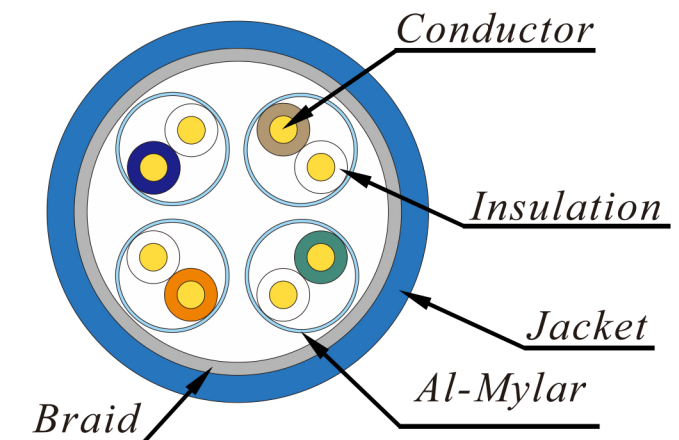
S/FTP, 22AWG solid bare copper, CAT.7A, CMP
Each pair twist with metal foil screen
With braid wire

Features

High performance transmission
High quality of safety property
Sweep frequency up to 1000 MHz

Standards

Electrical Transmission
- ISO/IEC 11801 (Edition 2.2)
- IEC 61156-5 (Edition 2.1)
Flame Test
- NFPA 262 (CMP)
Material and Construction
- UL 444
- CSA 22.2 NO. 214
EU Directive 2011/65/EC (RoHS2)
EU Directive 2006/95/EC (LVD)
CE compliance date: 2010.01.01



Material and Construction

Conductor	Material	22AWG solid bare copper	
Insulation	Material	Fluorinated Ethylene Propylene (FEP)	
	Color code & diameter	Blue & white	1.50 ± 0.02 mm
		Orange & white	1.50 ± 0.02 mm
		Green & white	1.50 ± 0.02 mm
	Brown & white	1.50 ± 0.02 mm	
Twisted	Description	Left hand direction	
Pair shield	Material	Al Mylar tape	
	Description	100 % coverage and aluminum side facing out	
Assembly	Description	Left hand direction	
Braid	Material	Tinned copper	
	Description	> 40 % coverage	
Jacket	Material	Low smoke flame retardant polyvinyl chloride (LSFRPVC)	
	Diameter	8.10 ± 0.2 mm	
	Thickness	0.50 ± 0.05 mm	
	Color	Per customer's request	
Marking	ELITE CAT.7A / CLASS F _A S/FTP 22AWG 4PR CMP ETL VERIFIED TO IEC 61156-5 mmyy XXXXM		
	Note 1: mmyy is date code.		

Usage & Environmental Condition

Temperature range	Storage & shipping	-20°C to 75°C
	Installation	0°C to 60°C
	Operation	-20°C to 60°C
Minimum bending radius	≥ 4 times of overall diameter	
Maximum pulling tension	≤ 110 N	

Physical & Electrical Characteristics (at 20°C)

Temperature & voltage rating	75°C / 300V
Spark test	2.5 KV DC
AC leakage current through overall jacket	≤ 10mA (1.5KV AC)
Cable cold bend	-20°C for 4 hr
Conductor DC resistance	≤ 9.5 Ω/100m
Resistance unbalance	≤ 5%
Dielectric strength	1.5 KV ac for 2 s
Insulation resistance	≥ 5000 MΩ · m
Mutual capacitance	≤ 5.6 nF/100m
Capacitance unbalance pair-to-ground	≤ 160 pF/100m

Transmission Performance (at 20°C)

Frequency (MHz)	IL	NEXT	PS.NEXT	ACRF	PS.ACRF	RL	Propagation Delay	Delay Skew	PS. ANEXT	PS. AACRF
	Max. dB/100m	Min. dB/100m	Min. dB/100m	Min. dB/100m	Min. dB/100m	Min. dB/100m	Max. ns/100m	Max. ns/100m	Min. dB/100m	Min. dB/100m
4	3.75	78.00	75.00	78.00	75.00	23.01	552.00	25.00	67.00	67.00
8	5.22	78.00	75.00	77.24	74.24	24.52	546.73		67.00	67.00
10	5.82	78.00	75.00	75.30	72.30	25.00	545.38		67.00	67.00
16	7.34	78.00	75.00	71.22	68.22	25.00	543.00		67.00	67.00
20	8.21	78.00	75.00	69.28	66.28	25.00	542.05		67.00	67.00
25	9.18	78.00	75.00	67.34	64.34	24.32	541.20		67.00	65.24
31.25	10.26	78.00	75.00	65.40	62.40	23.64	540.44		67.00	63.30
62.5	14.57	78.00	75.00	59.38	56.38	21.54	538.55		67.00	57.28
100	18.53	75.40	72.40	55.30	52.30	20.11	537.60		67.00	53.20
150	22.82	72.76	69.76	51.78	48.78	18.87	536.94		67.00	49.68
200	26.47	70.88	67.88	49.28	46.28	18.00	536.55		67.00	47.18
250	29.73	69.43	66.43	47.34	44.34	17.32	536.28		67.00	45.24
300	32.69	68.24	65.24	45.76	42.76	17.30	536.08		67.00	43.66
350	35.44	67.24	64.24	44.42	41.42	17.30	535.92		67.00	42.32
400	38.01	66.37	63.37	43.26	40.26	17.30	535.80		67.00	41.16
450	40.45	65.60	62.60	42.24	39.24	17.30	535.70		67.00	40.14
500	42.76	64.92	61.92	41.32	38.32	17.30	535.61	67.00	39.22	
600	47.10	63.73	60.73	39.74	36.74	17.30	535.47	65.83	37.64	
700	51.13	62.72	59.72	38.40	35.40	16.63	535.36	64.82	36.30	
800	54.92	61.85	58.85	37.24	34.24	16.05	535.27	63.95	35.14	
900	58.51	61.09	58.09	36.22	33.22	15.54	535.20	63.19	34.12	
1000	61.93	60.40	57.40	35.30	32.30	15.08	535.14	62.50	33.20	

Shipping Information

Item	Dimension	Nominal net weight
Cable	305 m	23.08 kg (50.88 lb)
Plywood reel	D440 x d270 x H320 x h290 mm	3.9 kg
Pallet	1150 x1150 x120 mm	14.1 kg

Container type	Capacity of pallet	Capacity of plywood reel
20 feet	20	300
40 feet	40	600

Shipping could use standard delivery form or per customer`s request.