

Category 5e F/UTP PE Communications Cable



Product Type:

Data Cable

Application:

Concordia Category 5e F/UTP with PE sheath cables are designed to support horizontal networking applications over channel distances up to 100 metres in an outdoor environment. The cable meets the specified performance for Category 5e F/UTP cables and supports all CLASS D applications as defined within ISO/IEC 11801 2nd Edition.

Standards:

ISO/IEC11801 Class D Permanent Link, ANSI/TIA/-568-C.2 Category 5E Permanent Link RoHS Compliant

Construction:

Description:	CAT5E OUTDOOR FTP 305M					
Conductor:	Material:	Solid Bare Copper				
	Nom. O.D. (mm):	0.50±0.005mm				
Insulation:	Material:	HDPE				
	Diameter:	1.0±0.05mm				
		Pair 1: Blue and White/Blue				
	Colour:	Pair 2: Orange and White/Orange				
	Colour.	Pair 3: Green and White/Green				
		Pair 4: Brown and White/Brown				
PET:	Yes					
Drain Wire:	Single Bare Copper Ø0.40±0.005mm					
AL Foil:	Yes	Yes				
Rip cord:	Yes					
Sheath:	Material	PE				
	Thickness	0.70±0.05 mm				
	External O.D.	6.4±0.2 mm				
	Colour:	Black				
Packaging:	305M/reel					

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Electrical properties at 20°C

Characteristic Impedance (1-100MHz)	100 ± 15Ω			
Conductor resistance	≤ 96Ω/KM			
Test voltage (d.c. for 1 minute) wire/wire 50Hz1min	1500V			
Insulation resistance (500V d.c)	≥ 5000MΩ.km			

Technical Performance (FLUKE Link 90m±3m):

Frequency	Impedance	RL	ATT	NEXT	ELFEXT	PSNEXT	PSELFEXT	SKW	NVP
Mhz	ohm	≥dB/100M	≤dB/100M	≥dB/100M	≥dB/100M	≥dB/100M	≥dB/100M	≤ns/100M	
1		20.0	2.04	65.3	63.8	62.3	60.8		
4		23.0	4.1	56.3	51.7	53.3	48.7		
10		25.0	6.5	50.3	43.8	47.3	40.8		
16	100±15	25.0	8.2	47.3	39.7	44.3	36.7	≤45	66%
20		25.0	9.3	44.5	37.7	42.8	34.7		
31.25		23.6	11.6	42.9	33.9	39.9	30.9		
62.5		21.5	17.0	38.4	27.8	35.4	24.8		
100		20.1	22.0	35.3	23.8	32.3	20.8		

Permissible Temperature:

-10℃----75℃

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