



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
	Colour:	Pair 1: Blue and White/Blue
		Pair 2: Orange and White/Orange
		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	
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	

Electrical properties at 20°C

Characteristic Impedance (1-100MHz)	100 ± 15Ω
Conductor resistance	≤ 96Ω/KM
Test voltage (d.c. for 1 minute) wire/wire 50Hz1 min	1500V
Insulation resistance (500V d.c)	≥ 5000MΩ.km

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

Frequency Mhz	Impedance ohm	RL ≥dB/100M	ATT ≤dB/100M	NEXT ≥dB/100M	ELFEXT ≥dB/100M	PSNEXT ≥dB/100M	PSELFEXT ≥dB/100M	SKW ≤ns/100M	NVP
1	100±15	20.0	2.04	65.3	63.8	62.3	60.8	≤45	66%
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		25.0	8.2	47.3	39.7	44.3	36.7		
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°C----75°C