

UC300 Cat.5e F/UTP SWB LSZH-FR

Category cable for demanding environments

Construction

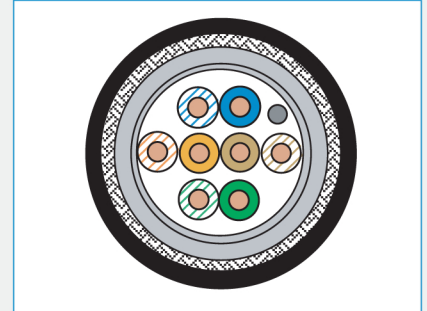
Conductor	Bare copper wire Ø 0.51 mm (AWG24)
Insulation	PE, Nom. Ø 1.03 mm
Twisting	2 cores to the pair
Overall screen	Aluminium Polyester Tape
Drain Wire	Tinned Copper ; Ø 0.495 ± 0.008 mm
Inner Sheath	LSZH-FR
Armouring	0.3mm Galvanised Steel Braid, Coverage 80%
Outer sheath	LSZH-FR
Sheath colour	Black

Mechanical Properties

Bending radius	Installation	8 x D
Temperature range	During operation	-10°C to + 60°C
	During installation	-10°C to + 60°C

Electrical Properties at at 20°C ± 5°C

loop resistance	-	≤ 170 Ω/km
Resistance unbalance	-	≤ 2%
Characteristic Impedance	1-130MHz	100 Ω ± 15 ohm
Mutual capacitance	at 800 Hz	Nom. 43 nF/km
Capacitance unbalance	(pair to ground)	≤ 300 pF/km
Nominal Velocity of Propagation	-	0.69c



Application

- Generic Data transmission. This cable is a Cat5e F/UTP cable is meant for use as installation/horizontal cable in demanding electrical and mechanical environment.

Standards

- EIA/TIA 568C;
- ISO/IEC 11801 2nd ed.; IEC 61156-5
- EN 50173; EN 50288-3-1

Fire Rating

- IEC 60332-1, IEC 60332-3-24, IEC 61034-2, IEC 60754-1/2

Electrical Data Nominal at 20°C

F (MHZ)	Max. Ins. Loss (dB/100m)	Min. Return loss (dB)	Pair to Pair		Power Sum		ELFEXT (dB/100m)
			Min. NEXT (dB/100m)	Min ELFEXT (dB/100m)	Min. NEXT (dB/100m)	Min ELFEXT (dB/100m)	
1	-	20	-	-	-	-	-
4	4.1	23	56.3	52	53.3	55	552
10	6.5	25	50.3	44	47.3	47	545.4
16	8.3	25	47.2	39.9	44.2	42.9	543
20	9.3	25	45.8	38	42.8	41	542
31.2	11.7	23.6	42.9	34.1	39.9	37.1	540.4
62.5	17	21.5	38.4	28.1	35.4	31.1	538.6
100	22	20.1	35.3	24	32.3	27	537.6

Ordering Information

P/N	Product Description	P.U
53048B	UC 300 Cat 5e F/UTP 24 AWG LSZH-FR SWB	500m/drum