

UC400 Cat.6 F/UTP SWB LSZH-FR

Category cable for demanding environments



Application

Generic Data transmission. This cable is a Cat6 F/UTP cable 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

Construction

Conductor	Bare copper wire Ø 0.57 mm (AWG23)
Insulation	PE, Nom. Ø 0.95 mm
Twisting	2 cores to the pair
Overall Screen	Aluminum Polyester Tape
Inner Sheath	Special Flame retardant and halogen free LSZH-FR
Armouring	0.3mm Galvanised Steel Braid, Coverage 80%
Outer Sheath	Black Special Flame retardant and halogen free 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 20°C± 5°C

Loop resistance	≤ 110 Ω/km	≤ 176 Ω/km
Resistance unbalance	12 Ω/km	≤ 2%
Insulation resistance	(500 V)	≥ 2000 MΩ*km
Mutual capacitance	at 800 Hz	Nom. 43 nF/km
Capacitance unbalance	(pair/ground)	≤ 1500 pF/km
Test voltage	(DC, 1 min) core/core and core/screen	1000 V

Electrical Data Nominal at 20°C

F (MHZ)	Attenuation (dB/100m)	NEXT (dB)	ACR (dB/100m)	PS-NEXT (dB)	EL-FEXT (dB/100m)	PS-ELFEXT (dB/100m)	Return loss (dB)
1	2.1	81.3	78.2	77.3	71	68	21.5
4	3.8	71.3	67.4	68.3	59	56	24.5
10	6	65.3	59.3	62.3	51	48	26.5
16	7.6	62.2	54.6	59.2	46.9	43.9	26.5
20	8.5	60.8	52.3	57.8	45	42	26.5
31.2	10.7	57.9	47.1	54.9	41.1	38.1	25.1
62.5	15.5	53.4	37.9	50.4	35.1	32.1	23
100	19.9	50.3	30.4	47.3	31	28	21.6
155.5	25.3	47.4	22.1	44.4	27.2	24.2	20.3
200	29.1	45.8	16.6	42.8	25	22	19.5
250	33	44.3	11.3	41.3	23	20	18.8

Ordering Information

P/N	Product Description	P.U
61048B	UC 400 Cat 6 F/UTP 23 AWG LSZH-FR SWB, IEC 60332-1	500m/drum