CAT 5e UTP

NETWORK CABLES UN-SHIELDED

TECHNICAL FEATURES

Conductor	Solid bare copper wire
Insulation	LDPE Polyethylene
Rip cord	Nylon
Sheath material	LSZH Low Smoke Zero Halogen, Colour Grey
Standards	TIA/EIA-568B & ISO/TEC 11801
	& IEC 61156-5:2009
Core colours identification	blue, white / blue - orange, white / orange -
	green, white / green - brown, white / brown

APPLICATION

Local area Cat. 5e LAN cable, un-shielded, twisted pair, suitable for Networks and video applications.

SPECIAL FEATURES

Halogen-Free sheath
Conform to RoHS

REMARKS

Conform to RoHS
CE acc. to EC Low-Voltage Directive 73/23/EEC and 93/68/EEC
Standard put up: 305 meters drums or boxes

Physical characteristics		
ITALCOND part number		ITAL034
No. of pairs	num	4
Conductor size	AWG	24
Nom. Diameter of copper strand	mm	0,50
Nom. Radial Thickness insulation	mm	0,20
Nom. diameter over insulation	mm	0,92x2c twist
Nom. Radial sheath Thickness	mm	0,50
Nom. Overall outer diameter	mm	5,10
Electrical Characteristics		
Impedance (1 - 100 MHz)	Ω	100±15
Impedance (100 - 250 MHz)	Ω	100±18
Mutual Capacitance	pF/m	49,2±5
Velocity Ratio	%	68
Maximum Delay	ns/100m	≤ 45
Max. conductor Resistance at 20°C	Ω/km	104,8
Max. operating voltage	Vrms	300
Miscellaneous		
Operating temperature	°C	-25 / +60
Max. reccomended pulling tension	N	156
Min. bending radius (install)	mm	12,7
Nominal cable weight	kg/km	30

Electrical Characteristics

Frequency	Attenuation	NEXT	PSNEXT	Return Loss
MHz	dB/100m	dB	dB	dB
	max			
1,00	2,00	62,30	62,30	17,00
4,00	4,10	53,30	53,30	18,80
10,00	6,50	47,30	47,30	20,00
16,00	8,20	44,20	44,20	20,00
31,25	9,30	39,90	39,90	18,60
62,00	17,00	35,40	35,40	16,50
100,00	22,00	32,30	32,30	15,10
250,00	36,50	29,30	17,30	17,30

Frequency	ELFEXT	PSELFEXT
MHz	dB	dB
1	61,00	61,00
4	49,00	49,00
10	41,00	41,00
16	37,00	37,00
31,25	31,00	31,00
62,5	25,00	25,00
100	21,00	21,00
250	16,00	13,20

The data and sketches of this technical leaflet are not binding and can be varied as a consequence of modifications and/or improvements deemed necessary by the manufacturer. Tollerances on weights and diameters ± 5%.

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