

CAT 6 UTP

NETWORK CABLES UN-SHIELDED



TECHNICAL FEATURES

Conductor:	Solid bare copper wire
Insulation:	LDPE Polyethylene
Filler:	Cross member PE
Ripcord:	Nylon
Sheath material:	LSZH Low Smoke Zero Halogen, Colour Grey
Standards:	TIE/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. 6 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 Directory 73/23/EEC and 73/23/EEC and 93/68/EEC
Standard put up: 305 meters drums or boxes

Physical characteristics

ITALICAB part number	ITAL032	
No. of pairs	num	4
Conductor size	AWG	23
Nom. Diameter of copper strand	mm	0,565
Nom. Radial Thickness insulation	mm	0,21
Nom. diameter over insulation	mm	0,96x2c twist
Nom. Radial sheath Thickness	mm	0,60
Nom. Overall outer diameter	mm	5,80 ± 0,2

Electrical Characteristics

Impedance (1 - 100 MHz)	Ω	100±15
Impedance (100 - 250 MHz)	Ω	100±15
Mutual Capacitance	pF/m	50±5
Velocity Ratio	%	70
Maximum Delay	ns/100m	≤45
Max. conductor Resistance at 20°C	Ω/km	<91,3
Max. operating voltage	Vrms	300

Miscellaneous

Operating temperature	°C	-25 / +50
Max. recommended pulling tension	N	156
Min. bending radius (install)	mm	12,7
Nominal cable weight	kg/km	40

Electrical Characteristics

Frequency MHz	Attenuation dB/100m max	NEXT dB	PSNEXT dB	Return Loss dB
1,00	1,90	74,30	72,30	20,00
4,00	3,70	65,30	63,30	23,00
10,00	5,90	59,30	57,30	25,00
16,00	7,50	56,30	54,30	25,00
31,25	10,60	51,90	49,90	23,60
62,00	15,40	47,40	45,40	21,50
100,00	19,80	44,30	42,30	20,10
250,00	32,80	38,30	36,30	17,30
Frequency MHz	ELFEXT dB	PSELFEXT dB		
1	67,80	64,80		
4	55,80	57,70		
10	47,80	44,80		
16	43,70	40,70		
31,25	37,90	34,90		
62,5	31,90	28,80		
100	27,80	24,80		
250	19,80	16,80		