

CAT 6A 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:	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. 6A LAN cable, un-shielded, twisted pair, suitable for Networks and video applications.

SPECIAL FEATURES

Halogen-Free sheath
Conform to RoHS, FLUKE TEST passed

REMARKS

Conform to RoHS, FLUKE TEST passed
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	ITAL032A	
No. of pairs	num	4
Conductor size	AWG	23
Nom. Diameter of copper strand	mm	0,585
Nom. Radial Thickness insulation	mm	0,26
Nom. diameter over insulation	mm	1,13x2c twist
Nom. Radial sheath Thickness	mm	0,60
Nom. Overall outer diameter	mm	6,8 ± 0,2
Electrical Characteristics		
Impedance (1 - 100 MHz)	Ω	100±15
Impedance (100 - 250 MHz)	Ω	100±20
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	43

Electrical Characteristics				
Frequency	Attenuation	NEXT	PSNEXT	Return Loss
MHz	dB/100m	dB	dB	dB
max				
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	ELFEXT	PSELFEXT		
MHz	dB	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		

