

CAT 6A UTP

NETWORK CABLES UN-SHIELDED



ITALCOND - MADE IN ITALY

TECHNICAL FEATURES

Conductor	Solid bare copper wire
Insulation	LDPE Polyethylene
Filler	Cross member PE
Ripcord	Nylon
Sheath material	PVC Grey or LSZH Orange
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.

REMARKS

Conform to RoHS, FLUKE TEST passed
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		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 / +60
Max. recommended pulling tension	N	156
Min. bending radius (install)	mm	12,7
Nominal cable weight	kg/km	43

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
300,00	34,30	37,10	35,10	16,80
400,00	40,10	35,30	33,30	15,90
500,00	45,30	33,80	31,80	15,20

Frequency MHz	ELFEXT dB	PSELFEXT dB		
1,00	67,80	64,80		
4,00	55,80	57,70		
10,00	47,80	44,80		
16,00	43,70	40,70		
31,25	37,90	34,90		
62,50	31,90	28,80		
100,00	27,80	24,80		
250,00	19,80	16,80		
300,00	18,30	15,30		
400,00	15,80	12,80		
500,00	13,80	10,80		