



FANTONET BY AMBRA90 - 29/03 - 10:00 - UTP



UTP CAT. 5 ENHANCED CABLE



▼ GENERAL SPECIFICATIONS

For fixed applications, this cable is in 4-pair copper, with conductors in 24 AWG solid copper insulated with polyolefin, grouped under polyester tape and protected by a thermoplastic and non-flame propagating sheath coloured in Grey (RAL 7001). This cable is used for the high-speed transmission of voice and data between central and peripheral systems for frequencies up to 100MHz, for D Class applications in structured cabling systems for buildings. Specifications checked up to 200 MHz.

STANDARD	FIRE PERFORMANCE	APPLICATIONS
ISO/IEC 11801-2ed	CEI 20-35	IEEE 802.3u 100 BASE T
TIA/EIA 568-A5	CEI 20-37 I, IEC 332.1	ATM (TP), ISDN, TP-DDI
EN 50173/A1		ETHERNET, 1000 BASE-T
EN 50288-3-1		GIGABIT-ETHERNET

▼ ELECTRICAL SPECIFICATIONS

• Conductor resistance:	84.2 Ω /Km
• Max. ring resistance:	16.8 Ω /100m at 20 °C
• Max. mutual capacitance:	49 pF/ 100m at 1 kHz
• Max. capacity unbalance:	15 pF/100m at 1 kHz
• Standard impedance:	100 \pm 15 Ω between 1 MHz and 100 MHz
• Minimum bending radius:	50mm
• Working temperature:	-20 \div +60 °C
• Max. pull:	10 Kg

▼ MANUFACTURING SPECIFICATIONS

Description	Inner conductor diam. mm	Insulation	Pairs diam. mm	Sheath diam. mm
UTP Cat.5E	Cu	Polyolefin	BI-BL / BL	Grey (RAL 7001)
4 x 2 x AWG 24/1	AWG 24/1 (1 x 0.51)	1.0	BI-AR / AR BI-VE / VE BI-MA / MA	5.40 PVC-FR / LSZH

▼ TRANSMISSION SPECIFICATIONS

Frequency (MHz)	Attenuation (dB/100m)	Thresh. reg. ISO/IEC 11801 2 ^{ed} (dB/100m)	NEXT (dB)	Thresh. reg. ISO/IEC 11801 2 ^{ed} (dB)	PS NEXT (dB)	Thresh. reg. ISO/IEC 11801 2 ^{ed} (dB)	PS EL-FEXT (dB/100m)	Thresh. reg. ISO/IEC 11801 2 ^{ed} (dB/100m)	ACR (dB/100m)
1.00	1.8	2.1	76	65.3	74	62.3	68	63.8	74.2
10.00	6.0	6.5	58	50.3	56	47.3	48	43.8	52.0
16.00	7.7	8.2	56	47.3	54	44.4	43	39.7	48.3
31.25	10.8	11.7	51	42.9	49	39.9	39	33.9	40.2
62.50	15.7	17.0	47	38.4	45	35.4	32	27.8	31.3
100.00	19.9	22.0	44	35.3	42	32.3	26	23.8	24.1
150.00	25.6	-	41	-	39	-	24	-	15.4
200.00	29.2	-	39	-	37	-	22	-	9.8

■ LAN CABLES - Cat. 5 Enhanced

Code	Description	Colour	Packaging	No. pieces
A82.500	UTP Cat. 5 Enhanced 4 x 2 x AWG 24/1 - sheath in PVC-FR	■ ■ ■ ■	Box 305 m	1
A82.550	UTP Cat. 5 Enhanced 4 x 2 x AWG 24/1 - sheath in LSZH	■ ■ ■ ■	Box 305 m	1
A82.600 (*)	UTP Cat. 5 Enhanced 4 x 2 x AWG 24/7 - sheath in PVC-FR	■ ■ ■ ■	Box 305 m	1

(*) Flexible - PLEASE NOTE only use with max. 5m-long patch-cords, according to the standard.

■ LAN CABLES - Cat. 5 Enhanced - External use

Code	Description	Colour	Packaging	No. pieces
A82.456	UTP Cat. 5 Enhanced 4 x 2 x AWG 24/1 - sheath in PE	■ ■ ■ ■	Reel 500 m	1
A82.457	UTP Cat. 5 Enhanced 4 x 2 x AWG 24/1 - sheath in PE	■ ■ ■ ■	Reel 1000 m	1

▼ STANDARD PACKAGING

Final no.	Manufacturing	A82.50_	A82.55_	A82.60_
0	in stock	Dispenser 305 m	Dispenser 305 m	Dispenser 305 m
6	upon request	500 m Reel	500 m Reel	500 m Reel
7	in stock	1000 m Reel	1000 m Reel	1000 m Reel