

Tech Data

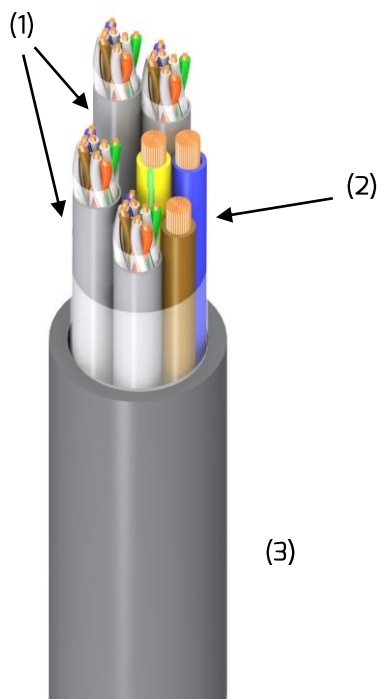
REF.: 9603

CABLE AND FIBRE OPTIC

HYBRID

4 CAT 6 F/UTP + 3 Power

Description



(1) **4 CAT 6 F/UTP:** Solid bare annealed copper conductor. Polyethylene Insulation. Twisted. Wired. Aluminium-Polyester foil overall shield. Tinned copper drain wire. PVC outer sheath. Data transmission up to **10GBaseT (length <50m)**

(2) **3 POWER:** Bare copper conductor 2.5 mm². PVC insulation.

(3) **GENERAL:** PVC-NBR outer sheath.

Applications

- 10 BASE-T
- 4/16 Mbps TOKEN RING (IEEE 802.5)
- 100 BASE-VG-AnyLAN
- 100 Mbps TP-PMD (ANSI x3t9.5)
- 55/155 Mbps ATM
- 1000 BASE-T (Gigabit Ethernet)
- 1.2 Gbps ATM
- 10G BASE-T (Length<50 m)

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Physical Characteristics

CAT 6A F/UTP	Conductor		Insulation	
	Material: Solid Bare annealed Cu (Copper) Section: 0.26 mm ² AWG: 23 Composition: 1x0.57		Material: Polyolefin foam-skin Diameter: 1.10 mm Colour: Blue/Light blue, Orange/White, Green/ Light Green, Brown/Light Brown	
	Wired		Separation of pairs	
	Composition: 4 pairs		Cross	
	Drain wire		Shielding	
	Material: Bare Cu (Copper) Section: 0.20 mm ² AWG: 24 Composition: 1x0.50		General	Material: Aluminium-Polyester foil Coverage: 100%
	Sheath			
	Material: PVC (Polyvinyl Chloride) Diameter: 6.6 mm Colour: Gray			

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REF.: 9603

	Conductor	Insulation
POWER 3×1.5	Material: Bare Cu (Copper) Section: 2.5 mm ² AWG: 13 Composition: 50×0.25	Material: PVC (Polyvinyl chloride) Diameter: 3.45 mm Colour: Blue, Brown, Yellow/Green.
	Overall Sheath	Wiring
GENERAL	Material: PVC-NBR Diameter: 21.10 mm Colour: BLACK	Wiring of all elements on extruded central element

Mechanical Characteristics

Approx. Weight	493 Kg/Km
Temperature	-5/+70°C
Min. Bend Radius	316 mm

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Electrical Characteristics

CAT 6A F/UTP	Max. dc Resistance @ 20°C				95.0 Ω/Km				
	Nom. Capacitance @ 1KHz				56 nF/Km				
	Impedance @ 100 MHz				100 ±5 Ω				
	Propagation Speed				72%				
	Propagation Delay @ 10MHz				518 ns max.				
	Delay Skew @ 100m				40 ns max.				
	Coupling Att.								
					@30-100 MHz 55 dB				
					@100-1000 MHz 55-20 log (f/100) dB				
	FREQ. MHz	ATT. dB/100m (máx.)	NEXT dB (mín.)	PS-NEXT dB (mín)	ELFEXT (ACR-F) dB/100m (mín.)	PS-ELFEXT (PSACR-F) dB/100m (mín.)	ACR dB/100 m (mín)	PS-ACR dB/100 (mín.)	RL dB (mín.)
	1*	2.1	75.3	72.3	68.0	65.0	73.2	70.2	20.0
	4	3.8	6.3	63.3	58.0	55.0	62.5	59.5	23.0
	8	5.2	61.8	58.8	51.9	48.9	56.5	53.5	24.5
10	5.9	60.3	57.3	50.0	47.0	54.4	51.4	25.0	
16	7.4	57.2	54.2	45.9	42.9	49.9	46.9	25.0	
25	9.2	54.3	51.3	42.0	39.0	45.0	42.0	24.3	
31.25	10.3	52.9	49.9	40.1	37.1	42.6	39.6	23.6	
62.5	14.5	48.4	45.4	34.1	31.1	33.8	30.8	21.5	
100	18.4	45.3	42.3	30.0	27.0	26.9	23.9	20.1	
155	22.9	42.4	39.4	26.2	23.2	19.5	16.5	18.8	
200	26.1	40.8	37.8	24.0	21.0	14.7	11.7	18.0	
250	29.2	39.3	36.3	22.0	19.0	10.1	7.1	17.3	
300*	32.0	38.1	35.1	20.5	17.5	6.1	3.1	17.3	
350*	34.7	37.1	34.1	19.1	16.1	2.5	1.0	17.3	

* Only for information

POWER	Max. Resistance at 20°C Insulation Resistance Test Voltage	7.98 Ω/Km > 100 MΩ · Km 1500 V
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Environment

Heavy Materials Content

Directive 2011/65/EU

Applicable Regulation

Conductor Material

UNE-EN 60228

Insulating Material

UNE-EN 50290

Multicore and symmetrical pair/quad cables for digital communications.

IEC 61156-5

Information technology: Generic cabling for customer premises

ISO/IEC 11801 - EN 50173

Multi-element metallic cables used in analogue and digital communication and control - Part 5-1: Sectional specification for screened cables characterized up to 250 MHz - Horizontal floor and building backbone cables

EN 50288-5-1



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For possible changes due to continuous product improvements; Pinanson S.L. reserves the right to change the showed data in this document without notice. The data presented here correspond to the time it was compiled.