CERVICOM DATA F/UTP Cat.6 ARM PE CPR
Structured cabling

Construction

Conductor	Bare copper wire
	Diameter: AWG23 (Aprox. 0,56mm)
Insulation	Polyolefyn
Assembly	Two insulated conductors twisted together as a pair
Pair Screen	-
General assembly	4 pairs laid up together with non-metallic cross separator
Overall screen	Aluminium/polyester tape + tinned copper drain wire
Inner sheath	PVC
Armour	Corrugated Aluminium tape, overlapped
	Coverage: 100%
Outer sheath	PE (Polyethylene)
	Colour: Black

Technical characteristics

Outer diameter	13 mm Aprox.
Weight	165 Kg/Km
Operating T^{a}	Fixed installation: -20°C a +70°C
	During installation: 0°C a +50°C
Min. bending radius	15xD
Conductor resistance	95 Ohm/Km Max.
Mutual capacitance	Nominal 56 pF/m (at 1KHz)
Characteristic Impedance	100 ± 5 Ohm (at 100 MHz)
Velocity of propagation	72%
Propagation delay	Nominal 518 ns/100m
Coupling attenuation	85 dB Min. (30-100 Mhz)

Application

Category 6 data transmission cable for local area networks (LAN) in fixed outdoors installations, with additional mechanical protection:

10Base-T (IEEE 802.3) / 4/16 Mbps TOKEN RING (IEEE 802.5) / 100BASE-VG-AnyLAN / 100Mbps TP-PMD (ANSI X3T9.5) / 100BASE-T (IEEE 802.3) / 55/155 Mbps ATM / 1000BASE-T (Gigabit Ethernet)

* CPR:

Cable suitable for installation under the requirements of CPR (Construction Product Regulation (EU) No. 305/2011) according to the classification (Euroclass) specified in this document.

Standards / Properties

Ref. standard for drawing	EN 50173; EN 50288-5-1
	ISO/IEC 11801; IEC 61156-5
CPR Classification (Euroclass)	Fca (According to UNE-EN 50575)

electromagnetic protection water resistant

Code:
Family: 398
Revision: 10
Date: 14/05/2018

Realized:

Approved:

Article table

Code	Cable	Supply
39800006	F/UTP Cat.6 4x2xAWG23 Armoured PE	Drums 1000mts

Colour code

PAIR N°	Conductor A	Conductor B
1	Blue	White
2	Orange	White
3	Green	White
4	Brown	White

Electrical data

Frec.(MHz)	** Attenuation	*NEXT	*PSNEXT	**ACRF	**PS-ACRF	**ACR	**PS-ACR	*RL
1	2.1	75.3	72.3	68	65	73.2	70.2	20
4	3.8	66.3	63.3	58	55	62.5	59.5	23
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	47	54.4	51.4	25
16	7.4	57.2	54.2	45.9	42.9	49.9	46.9	25
25	9.2	54.3	51.3	42	39	45	42	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	27	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	21	14.7	11.7	18
250	29.2	39.3	36.3	22	19	10.1	7.1	17.3

Units: * = dB / ** = dB/100m

Frec.(MHz) Frequency

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