



Construction

Conductor	Bare copper wire Diameter: 0,56 mm (AWG23)
Insulation	FoamSkin PE (Foam polyethylene) Diameter: 1,38 mm
Assembly	Two insulated conductors twisted together as a pair
Pair Screen	Aluminium/Polyester tape on each pair
General assembly	4 individually shielded twisted pairs laid up together
Overall screen	Tinned copper wire braid
Outer sheath	Halogen free compound Colour: Orange

Technical characteristics

Outer diameter	7,3 mm
Weight	55 Kg/Km
Operating T^a	Fixed installation: -20°C to +60°C During installation: 0°C to +50°C
Min. bending radius	Fixed installation (without load): 4xD During installation (with load): 8xD
Loop resistance	154 Ohm/Km Max.
Resistance unbalance	2% Max.
Insulation resistance	2000 MOhm*Km Min. (500V)
Mutual capacitance	Nominal 43 pF/m (at 800Hz)
Capacitance unbalance	1500 pF/Km Max. (Pair-Ground)
Characteristic Impedance	100 ± 5 Ohm (at 100 MHz)
Velocity of propagation	79%
Propagation delay	Nominal 427 ns/100m
Test Voltage	1000 V (DC, 1 min)
Transfer Impedance	Max. 12 mOhm/m (at 1 MHz) Max. 10 mOhm/m (at 10 MHz) Max. 30 mOhm/m (at 30 MHz)
Coupling attenuation	80 dB
Segregation class	"D"

Application

Shielded Category 7 halogen free data transmission cable for local area networks (LAN):

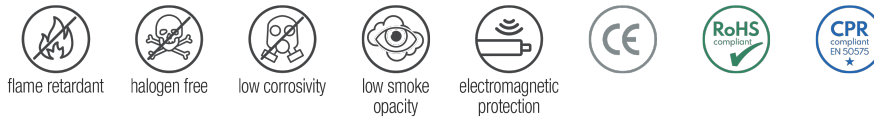
- Primary(Campus), Secondary (Riser), Tertiary (Horizontal)
- IEEE 803.3: 10Base-T, 100Base-T, 1000Base-T, 10GBaste-T
- IEEE 802.5 16Mb; ISDN; TPDDI; ATM
- Power over Ethernet (PoE) / Poe+

* 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. for construction/drawing	EN 50173-1; EN 50288-4-1 ISO/IEC 11801; IEC 61156-5 IEEE 802.3at
CPR Classification (Euroclass)	Dca-s2,d2,a2 (According to UNE-EN 50575)
Flame Retardant	UNE-EN 603332-1 (IEC 60332-1)
Halogen free	UNE-EN 60754-1 (IEC 60754-1)
Low corrosivity	UNE-EN 60754-2 (IEC 60754-2) (pH >= 4,3 ; conductivity =< 10µS/mm)
Low smoke emission	UNE-EN 61034 (IEC 61034)



Article table

Code	Cable	Supply
14450022	S/FTP Cat.7 4x2xAWG23 LSHF	Drums 500mts

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	**ACR	**PS-ACR	**ACRF	**PS-ACRF	*RL
1	1.8	100	97	98	95	105	105	-
4	3.4	100	97	97	94	105	102	27
10	5.4	100	97	95	92	97	94	30
16	6.8	100	97	93	90	93	90	30
20	6.8	100	97	92	89	91	88	30
31.2	9.6	100	97	90	87	87	84	30
62.5	13.7	100	97	86	83	81	78	30
100	17.4	100	97	83	80	77	74	30
125	19.5	95	92	75	72	75	72	26
155.5	21.9	94	91	72	69	73	70	26
175	23.3	93	90	70	67	72	69	25
200	25	92	89	67	64	71	68	25
250	28.1	90	87	62	59	69	66	24
300	30.9	89	86	58	55	67	64	24
450	38.3	87	84	48	45	64	61	23
600	44.8	85	82	40	37	61	58	22
750	52	83	80	31	28	59	56	21
900	59.34	82	79	23	20	58	55	20
1000	63.1	80	77	17	14	57	54	20

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

Frec.(MHz)

Frequency