



Construction

Conductor	Stranded bare copper wires Diameter: 0,42 mm (AWG27/7)
Insulation	FoamSkin PE (Foam polyethylene) Diameter: 0,98 mm
Assembly	Two insulated conductors twisted together as a pair
Pair Screen	Aluminium/Polyester tape in "S" shape helically applied on two pairs covering each of them individually + flexible tinned copper drain wire
General assembly	4 shielded pairs laid up together
Overall screen	-
Outer sheath	Halogen free compound Colour: Grey
Outer diameter	5,7 mm
Weight	26 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): 25mm During installation (with load): 50mm
Loop resistance	340 Ohm/Km Max.
Resistance unbalance	3% 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. 50 mOhm/m (at 1 MHz) Max. 100 mOhm/m (at 10 MHz) Max. 200 mOhm/m (at 30 MHz)
Coupling attenuation	55 dB

Application

Flexible screened halogen-free cable for Category 6 data transmission in local area networks (LAN), suitable for the work area (computers) and panel wiring:

IEEE 803.3: 10Base-T, 100Base-T, 1000Base-T, IEEE 802.5 16Mb; ISDN; TPDDI; ATM

Standards / Properties

Ref. standard for drawing	EN 50173-1; EN 50288-5-2 ISO/IEC 11801; IEC 61156-6 TIA/EIA-568-C.2
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 \geq 4,3 ; conductivity \leq 10 μ S/mm)
UNE-EN 61034 (IEC 61034)

Low smoke emission



flame retardant



halogen free



low corrosivity



low smoke
opacity



electromagnetic
protection



Electrical Data

Frec.(MHz)	** Attenuation	*NEXT	*PSNEXT	**ACRF	**PS-ACRF	*RL
1	3	87	84	75	72	23
4	7	78	75	75	72	23
10	10	72	69	75	72	23
16	13	69	66	71	68	23
20	15	68	65	69	66	23
31.2	18	65	62	65	62	23
62.5	26	60	57	59	56	23
100	33	57	54	55	52	23
125	36	56	53	53	50	21
155.5	41	54	51	51	48	21
175	43	53	50	50	47	21
200	46	53	50	49	46	21
250	51	51	48	47	44	
300	56	50	47	45	42	
400	65	48	45	43	40	

Unidades: * = dB / ** = dB/100m

Frec.(MHz)

Frequency

COLOUR TABLE

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

Article Table

Code	Cable	Supply
14450069	U/FTP Cat.6 4x2xAWG27 LSHF PATCH	Drums 500mts