



CABLE STRUCTURE

Conductor	24 AWG Bare Copper
Insulation	PE compound
Overall Screen	Al-Pet Foil and Tinned Copper Wire Braiding
Sheath	Halogen free flame retardant compound (SHFI)

TECHNICAL PROPERTIES

Overall diameter	Ø 6,20 ± 0,20 mm
Cable Weight	48 kg/km
Min. Bending radius during draw in	50 mm
Min. Bending radius permanently installed	25 mm
Max. Tensile Strength	90 N
Min. Crush Resistance	1000 N/10 cm
Min. Impact	10 Impacts
Installation Temperature	0°C / +50°C
Operating Temperature	- 20°C / +70°C
Standarts	IEC 61156-5, EN 50288-2-1, EN 50173-1, ISO/IEC 11801 2nd ed
Flame Retardant	IEC 60332-1-2, IEC 60332-3-24
Halogen Free	IEC 60684-2, IEC60754-1/2
Low Smoke	IEC 61034-1/2

ELECTRICAL PROPERTIES at 20°C

Max. Conductor Resistance	< 9.5 Ω / km
Max. Resistance Unbalance	< 2 %
Min. Insulation Resistance	5000 MΩ x m
Mutual Capacitance	< 60 pF / m
Capacitance Unbalance	1600 pF / km
Impedance at 100 MHz	100 ± 5 Ω
Velocity of Propagation	66 %
Delay Skew	< 45 ns / 100 m
Test Voltage	1000 V
Operating Voltage	125 V

APPLICATIONS

IEEE 802.3: 10Base-T, 100Base-T, 1000Base-T, IEEE 802.5 16 MB, ISDN, TPDDI, ATM Power over Ethernet (PoE) / PoE+. These cables are used in data communication networks with 200 MHz bandwidth capacity. And for the transmission of digital and analogue voice, video and signals on ships.



FLAME RETARDANT



HALOGEN-FREE



LOW SMOKE



NO CORROSIVITY

Nominal Transmission Characteristics at 20 °C

Frequency (MHz)	Attenuation (dB/100 m)	NEXT (dB)	PS - NEXT (dB)	ACR (dB/100 m)	PS-ACR (dB/100 m)	ACRF (dB/100 m)	PS-ACRF (dB/100m)	Return Loss (dB)
1	2.0	70	67	68	65	78	75	21
4	3.6	62	59	58	55	70	67	29
10	5.7	55	52	50	47	52	49	30
16	7.7	55	52	45	42	50	47	30
31.2	11.2	48	45	40	37	35	32	29
62.5	16.4	48	45	30	27	35	32	27
100	20.9	40	37	20	17	30	27	27
200	27.3	35	32	10	7	20	17	20