



Design

- Inner conductor: Stranded copper wire 7 X 1.0 (10 AWG)
- Insulation of foamed Polyethylene (PE) with skin
- Copper foil overlapped, applied longitudinally
- Shield braiding of bare copper wires
- Coverage about 75%

Ø 2,85 mm (0,112 in dia)

Ø 7,20 mm (0,283 in dia)

Ø 7,90 mm (0,311 in dia)

Jacket

- Special thermoplastic copolymer (FRNC) BK

Ø (10,2 ±0,2) mm (0,402 ±0,008 in dia)

Electrical data at 20°C

- Conductor resistance
- Insulation resistance
- Characteristic impedance
- Capacitance (1 kHz)
- Screening attenuation 1 GHz (DIN EN 50289-1-6 / triaxial method)
- Relative velocity of propagation
- Test voltage (wire/screen rms 50Hz 1 min)

≤ 3,5 Ohm/km

≥ 10 GOhm*km

(50±2) Ohm

78 nF/km

≥ 90 dB

85 %

1000 V

Frequency (MHz)	10	100	500	1000	2000	2400	3000	4000	5000	6000	8000
Attenuation typ. (dB/100m)	1,2	4	9,6	14,2	21,2	23,6	26,7	31,1	35,2	39	46,4
(dB/100ft)	(0,37)	(1,22)	(2,93)	(4,33)	(6,46)	(7,19)	(8,14)	(9,48)	(10,73)	(11,89)	(14,14)
Mean. Power (W) at 40°C	3960	1210	510	350	230	210	180	150	130	120	100

Mechanical and thermal characteristics

Conductor/Screen material acc. to DIN EN 13602 Cu-ETP-R...

Screen material acc. to DIN EN 13602 Cu-ETP-A...

Insulating material acc. to DIN EN 50290-2-23 (VDE 0819), table L/MD (HD 624.3) (2Y)

Jacket material acc. to IEC 60092-360 (IEC 60092-359) SHF2

Flame retardant acc. to IEC 60332-3-22 (Cat. A)

Other characteristics

RoHS compliant (Directive 2011/65/EC)

Low Smoke, Fire retardant, Zero Halogen

Corrosivity of fumes acc. to IEC 60754-2

Smoke-density acc. to IEC 61034

UV-resistant

Permissible temperature range

- Transport and fixed installation: -55°C (-67°F) up to 85°C (185°F)

- Installation and flexible use: -40°C (-40°F) up to 85°C (185°F)

Min. bending radius allowed: repeated 8X ø, single 4X ø

Weight about: 135 kg/km (90,5 lb/1000ft)

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