SeaTex® 10

SHF 2

Design

• Inner conductor: Stranded copper wire 7 X 1.0 (10 AWG)	Ø 2,85 mm (0,112 in dia)
• Insulation of foamed Polyethylene (PE) with skin	Ø 7,20 mm (0,283 in dia)
• Copper foil overlapped, applied longitudinally	
• Shield braiding of bare copper wires	
• Coverage about 75%	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	≤ 3,5 Ohm/km
• Insulation resistance	≥ 10 GOhm*km
• Characteristic impedance	(50±2) Ohm
• Capacitance (1 kHz)	78 nF/km
• Screening attenuation 1 GHz (DIN EN 50289-1-6 / triaxial method)	≥ 90 dB
• Relative velocity of propagation	85 %
• Test voltage (wire/screen rms 50Hz 1 min)	1000 V

Frequency (MHz)	10	100	500	1000	2000	2400	3000	4000	5000	6000	8000
Attenuation typ. (dB/100m) (dB/100ft)	1,2 (0,37)	4 (1,22)	9,6 (2,93)	14,2 (4,33)	21,2 (6,46)	23,6 (7,19)	26,7 (8,14)	31,1 (9,48)	35,2 (10,73)	39 (11,89)	46,4 (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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Passion in high frequency

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