



SeaTex® 15



Certificate No: TAE00001JX

Description and application

SeaTex®15 is a low loss flexible halogen free communications coaxial cable especially designed for use on ships, offshore platforms, wet or dry environments as well as indoor and outdoor installations. Its outer jacket is made of SHF2 material which insures high resistance to oils, UV and weathering. SeaTex® 15 provides a long service life in tough environmental conditions. Additionally, its flexibility and small bending radius allows its installation in limited spaces which makes it the ideal solution for marine applications.

Design

- Inner conductor: Stranded copper wire 7 X 1.5
- Insulation of foamed Polyethylene (PE) with skin
- Copper foil overlapped, applied longitudinally
- Shield braiding of bare copper wires
- Coverage about 75%

- Ø 4,5 mm (0,177 in dia)
- Ø 11,3 mm (0,445 in dia)
- Ø 12,1 mm (0,476 in dia)

Jacket

- Special thermoplastic copolymer (SHF2) BK
- Wall thickness acc. to IEC 60092-376

ø (14.6 ±0.3) mm (0.575 ±0.012 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)

- ≤ 1,5 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
Attenuation typ. (dB/100m) (dB/100ft)	0,86 (0,26)	2,81 (0,86)	6,7 (2,04)	9,8 (2,99)	14,6 (4,45)	16,2 (4,94)	18,3 (5,58)	21,6 (6,58)	24,6 (7,50)	27,5 (8,38)
Mean. Power (W) at 40°C	6327	1928	810	547	364	326	284	237	206	183

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. ISO 6722-1 part 5.14, class "A", Bending diameter 120 mm
- 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: 262 kg/km (175,6 lb/1000ft)

Jacobs
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