

Flexible RF cable

SX_04172_B-60 Item: 84026748

Description

SX: Low loss RF cables with cross-linked foam PE dielectrics

50 Ohm, 8 GHz, 105°C, ø5.5 mm, RADOX® jacket, Flame retardant, UL AWM style 1354, Railway qualified



Technical Data

Construction

| | Material | Detail | Diameter |
|------------------|--------------------------|-------------------|----------------|
| Centre conductor | Copper, Silver plated | Wire | 1.4 mm |
| Dielectric | SPEX (Crosslink Foam PE) | | 3.8 mm |
| Outer conductor | Aluminum / PES | longitudinal Foil | 4.2 mm |
| | Copper, Tin plated | Braid, 86 % | 4.6 mm |
| Jacket | RADOX | RAL 9005 - bk | 5.5 mm +/- 0.1 |

Print: HUBER+SUHNER SX04172B-60 50Ohm (UL logo) AWM Style1354 IEC60332-3-22 (production order number)

Electrical Data

| | |
|--------------------------------|--|
| Impedance | 50 Ω +/- 2 |
| Operating Frequency | 8 GHz |
| Capacitance | 80.3 pF/m |
| Velocity of signal propagation | 83 % |
| Signal delay | 4.01 ns/m |
| Screening effectiveness | ≥ 80 dB (up to 2.2 GHz) |
| Operating voltage | ≤ 0.7 kV _{rms} (at sea level) |
| Test voltage | 1.4 kV _{rms} (50 Hz/1 min) |
| Voltage Rating UL | 30 V |

Mechanical Data

| | | |
|---------------------|--------|---------------|
| Weight | | 4.78 kg/100 m |
| Min. bending radius | static | 25 mm |
| | | 90 mm |

Environmental Data

| | |
|--|---|
| Temperature range | -40 °C ... +105 °C |
| Temperature rating UL | 80 °C |
| Flame propagation test | EN 60332-1-2, IEC 60332-3-22, EN 50305, 9.1.2, EN 50266-2-2, NF C 32-070 C2, NF C 32-070 C1 |
| Smoke density test | EN 61034-2 |
| Toxicity test | NF X 70-100 |
| Halogen test | IEC 60754 |
| Halogen free | Yes |
| 2011/65/EU (RoHS - including 2015/863 and 2017/2102) | compliant |
| 1907/2006/EC (REACH) | compliant |
| 2000/53/EC (ELV) | compliant |
| 2012/19/EU (WEEE) | no special marking needed |

Additional Information

EN 45545-2 compliant hazard level for indoor cables: HL3 NFPA-130 compliant An operating temperature of -55°C is feasible for static applications.

Remarks

(For details refer to the HUBER+SUHNER RF CABLES GENERAL CATALOGUE or contact your nearest HUBER+SUHNER partner)

Suitable Connectors

| | |
|-------------|------------------|
| Cable group | X9 4 mm / 50 Ohm |
|-------------|------------------|

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Matrix typical Attenuation [formula: $(a \cdot f^{0.5} + b \cdot f)$] and maximum Power CW [formula: $(p/f^{0.5})$]

Coefficients:

a = 0.2375

b = 0.0438

f_{max} = 8

P at 1GHz = 198

| Frequency (GHz) | Nom. attenuation (dB / m) sea level 25° C ambient temperature | Nom. attenuation (dB / ft) sea level 25° C ambient temperature | Max. CW power (W) sea level 40° C ambient temperature |
|--------------------|---|--|---|
| 0,4 | 0,17 | 0,051 | 313 |
| 0,8 | 0,25 | 0,075 | 221 |
| 1,2 | 0,31 | 0,095 | 181 |
| 1,6 | 0,37 | 0,113 | 157 |
| 2,0 | 0,42 | 0,129 | 140 |
| 2,4 | 0,47 | 0,144 | 128 |
| 2,8 | 0,52 | 0,159 | 118 |
| 3,2 | 0,57 | 0,172 | 111 |
| 3,6 | 0,61 | 0,185 | 104 |
| 4,0 | 0,65 | 0,198 | 99 |
| 4,4 | 0,69 | 0,211 | 94 |
| 4,8 | 0,73 | 0,223 | 90 |
| 5,2 | 0,77 | 0,234 | 87 |
| 5,6 | 0,81 | 0,246 | 84 |
| 6,0 | 0,84 | 0,257 | 81 |
| 6,4 | 0,88 | 0,269 | 78 |
| 6,8 | 0,92 | 0,280 | 76 |
| 7,2 | 0,95 | 0,290 | 74 |
| 7,6 | 0,99 | 0,301 | 72 |
| 8,0 | 1,02 | 0,312 | 70 |

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