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Radio frequency cable connectivity



| Product name | Jet name ENVIROFLEX_178-AM | |
|--------------|--|--|
| Product ID. | 1 | |
| Description | RG178 LSFH, 50 Ohm, 3 GHz, 105°C, Ø 1.84 mm, RADOX° jacket | |
| | Halogen free alternative to RG cables Ozone, UV and weathering resistance Bus qualified | |
| Item no. | 85183340 | |











| Electrical data | |
|----------------------------------|---------------|
| Impedance | 50 Ω +/- 2 Ω |
| Operating frequency | ≤ 3 GHz |
| Capacitance | 94.5 pF/m |
| Velocity of signal propagation | 70.7 % |
| Signal delay | 4.71 ns/m |
| Screening effectiveness | 40dB |
| Insulation resistance | 10000000 MΩ*m |
| Operating Voltage (at sea level) | ≤1 kVrms |
| Test voltage (50 Hz/1 min) | ≤ 2 kVrms |

| Construction | | | |
|------------------|----------------------------------|---------------|---------------------|
| Impedance | Material | Detail | Diameter |
| Centre conductor | Steel, Copper + Silver plated | Strand-07 | 0.305 mm |
| Dielectric | SPEX (Crosslink Foam PE |) | 0.82 mm |
| Outer conductor | Copper, Silver plated | Braid, 95% | 1.27 mm |
| Jacket | RADOX | RAL 5010 – bl | 1.84 mm +/- 0.07 mm |

| Mechanical data | |
|-------------------------|----------------|
| Weight (g) | approx. 6.5g/m |
| Static bending radius | ≥ 5 mm |
| Repeated bending radius | ≥20 mm |

| Environmental data | | |
|--------------------------|--|--|
| Operation temperature | −40 °C 105 °C | |
| Installation temperature | −20 °C 60 °C | |
| Fire characteristics | free of halogenes, acc. standard IEC 60754 | |

Additional information

ISO 6722-1 5.22 (UN ECE-R 118.01) compliant

Radio frequency cable connectivity

ENVIROFLEX



| Product name | ENVIROFLEX_316_D-AM | |
|--------------|--|--|
| Product ID. | 1 | |
| Description | RG316D LSFH, 50 Ohm, 8 GHz, 105°C, Ø 3.16 mm, RADOX° jacket | |
| | Halogen free alternative to RG cables Ozone, UV and weathering resistance Bus qualified | |
| Item no. | 85070084 | |





Test voltage (50 Hz/1 min)





≤ 3 kVrms

| Electrical data | | |
|----------------------------------|---------------|--|
| Impedance | 50 Ω +/- 2 Ω | |
| Operating frequency | ≤ 8 GHz | |
| Capacitance | 94.5 pF/m | |
| Velocity of signal propagation | 70.1 % | |
| Signal delay | 4.72 ns/m | |
| Screening effectiveness | 70dB | |
| Insulation resistance | 10000000 MΩ*m | |
| Operating Voltage (at sea level) | ≤1.3 kVrms | |
| | | |

| Construction | | | |
|------------------|----------------------------------|---------------|---------------------|
| Impedance | Material | Detail | Diameter |
| Centre conductor | Steel, Copper + Silver plated | Strand-07 | 0.54 mm |
| Dielectric | SPEX (Crosslink Foam PE) | | 1.53 mm |
| Outer conductor | Copper, Silver plated | Braid, 96% | 1.99 mm |
| Outer conductor | Copper, Silver plated | 90% | 2.44 mm |
| Jacket | RADOX | RAL 9005 – bk | 3.16 mm +/- 0.08 mm |

| Mechanical data | |
|-------------------------|----------------|
| Weight | approx. 21 g/m |
| Static bending radius | ≥ 5 mm |
| Repeated bending radius | ≥ 30 mm |

| Environmental data | | |
|--------------------------|--|--|
| Operation temperature | −40 °C 105 °C | |
| Installation temperature | −20 °C 60 °C | |
| Fire characteristics | free of halogenes, acc. standard IEC 60754 | |

Additional information

ISO 6722-1 5.22 (UN ECE-R 118.01) compliant

Radio frequency cable connectivity SPUMA



| Product name | SPUMA_195-FR-AM |
|--------------|---|
| Product ID. | 1 |
| Description | Low-loss, 50 Ohm, 8 GHz, 85°C, Ø 4.98 mm, LSFH jacket |
| | Halogen free cable with standard dimensionsOzone, UV and weathering resistanceBus qualified |
| Item no. | 85069658 |











| Electrical data | | |
|----------------------------------|-------------------------|--|
| Impedance | 50 Ω +/- 2 Ω | |
| Operating frequency | ≤ 8 GHz | |
| Capacitance | 90.8 pF/m | |
| Velocity of signal propagation | 76.1 % | |
| Signal delay | 4.54 ns/m | |
| Screening effectiveness | 90 dB at frequency 6GHz | |
| Insulation resistance | 1000000 MΩ*m | |
| Operating Voltage (at sea level) | ≤ 0.5 kVrms | |
| Test voltage (50 Hz/1 min) | ≤ 1.0 kVrms | |

| Construction | | | |
|------------------|------------------------------|-------------------------|--------------------|
| Impedance | Material | Detail | Diameter |
| Centre conductor | Copper | Wire | 0.94 mm |
| Dielectric | SPE (Foamed Polyethylene) | | 2.83 mm |
| Outer conductor | Aluminum / PES | longitudinal Foil, 100% | 2.95 mm |
| Outer conductor | Copper, Tin plated | Braid | 3.52 mm |
| Jacket | LSFH (modified polyethylene) | RAL 9005 – bk | 4.98 mm +/- 0.1 mm |

| Mechanical data | |
|-------------------------|------------------|
| Weight | approx. 39.7 g/m |
| Static bending radius | ≥ 10 mm |
| Repeated bending radius | ≥ 40 mm |

| Environmental data | | |
|--------------------------|--|--|
| Operation temperature | −40 °C 85 °C | |
| Installation temperature | −20 °C 60 °C | |
| Fire characteristics | free of halogenes, acc. standard IEC 60754 | |

Additional information

ISO 6722-1 5.22 (UN ECE-R 118.01) compliant

Radio frequency cable connectivity SPUMA



| Product name | SPUMA_240-FR-AM |
|--------------|--|
| Product ID. | 1 |
| Description | Low-loss, 50 Ohm, 6 GHz, 85°C, Ø 6.17 mm, LSFH jacket |
| | Halogen free cable with standard dimensions Ozone, UV and weathering resistance Bus qualified |
| Item no. | 85069656 |









| Electrical data | | |
|----------------------------------|-------------------------|--|
| Impedance | 50 Ω +/- 2 Ω | |
| Operating frequency | ≤ 6 GHz | |
| Capacitance | 78.9 pF/m | |
| Inductance | 0.2 µH/m | |
| Velocity of signal propagation | 82.6 % | |
| Signal delay | 4.05 ns/m | |
| Screening effectiveness | 90 dB at frequency 6GHz | |
| Insulation resistance | 1000000 MΩ*m | |
| Operating Voltage (at sea level) | ≤ 0.9 kVrms | |
| Test voltage (50 Hz/1 min) | ≤1.5 kVrms | |

| Construction | | | |
|------------------|---------------------------------|-------------------------|--------------------|
| Impedance | Material | Detail | Diameter |
| Centre conductor | Copper | Wire | 1.42 mm |
| Dielectric | SPE (Foamed Polyethylene) | | 3.82 mm |
| Outer conductor | Aluminum / PES | longitudinal Foil, 100% | 3.94 mm |
| Outer conductor | Copper, Tin plated | Braid, 94% | 4.52 mm |
| Jacket | LSFH (modified polyethylene) | RAL 9005 – bk | 6.17 mm +/- 0.1 mm |

| Mechanical data | |
|-------------------------|----------------|
| Weight | approx. 61 g/m |
| Static bending radius | ≥ 14 mm |
| Repeated bending radius | ≥ 53 mm |

| Environmental data | | |
|--------------------------|--|--|
| Operation temperature | −40 °C 85 °C | |
| Installation temperature | −20 °C 60 °C | |
| Fire characteristics | free of halogenes, acc. standard IEC 60754 | |

Additional information

ISO 6722-1 5.22 (UN ECE-R 118.01) compliant

Radio frequency cable connectivity SPUMA



| Product name | SPUMA_400-FR-AM |
|--------------|--|
| Product ID. | 1 |
| Description | Low-loss, 50 Ohm, 8 GHz, 85°C, Ø 10.25 mm, LSFH jacket |
| | Halogen free cable with standard dimensions Ozone, UV and weathering resistance Bus qualified |
| Item no. | / |









| lootrioal data | | | | |
|----------------|-----------|--|--|--|
| CE CA | compliant | | | |

| Electrical data | | |
|----------------------------------|-------------------------|--|
| Impedance | 50 Ω +/- 2 Ω | |
| Operating frequency | ≤ 8 GHz | |
| Capacitance | 78 pF/m | |
| Velocity of signal propagation | 85 % | |
| Signal delay | 3.9 ns/m | |
| Screening effectiveness | 90 dB at frequency 6GHz | |
| Insulation resistance | 1000000 MΩ*m | |
| Operating Voltage (at sea level) | ≤ 1.6 kVrms | |
| Test voltage (50 Hz/1 min) | ≤ 3 kVrms | |

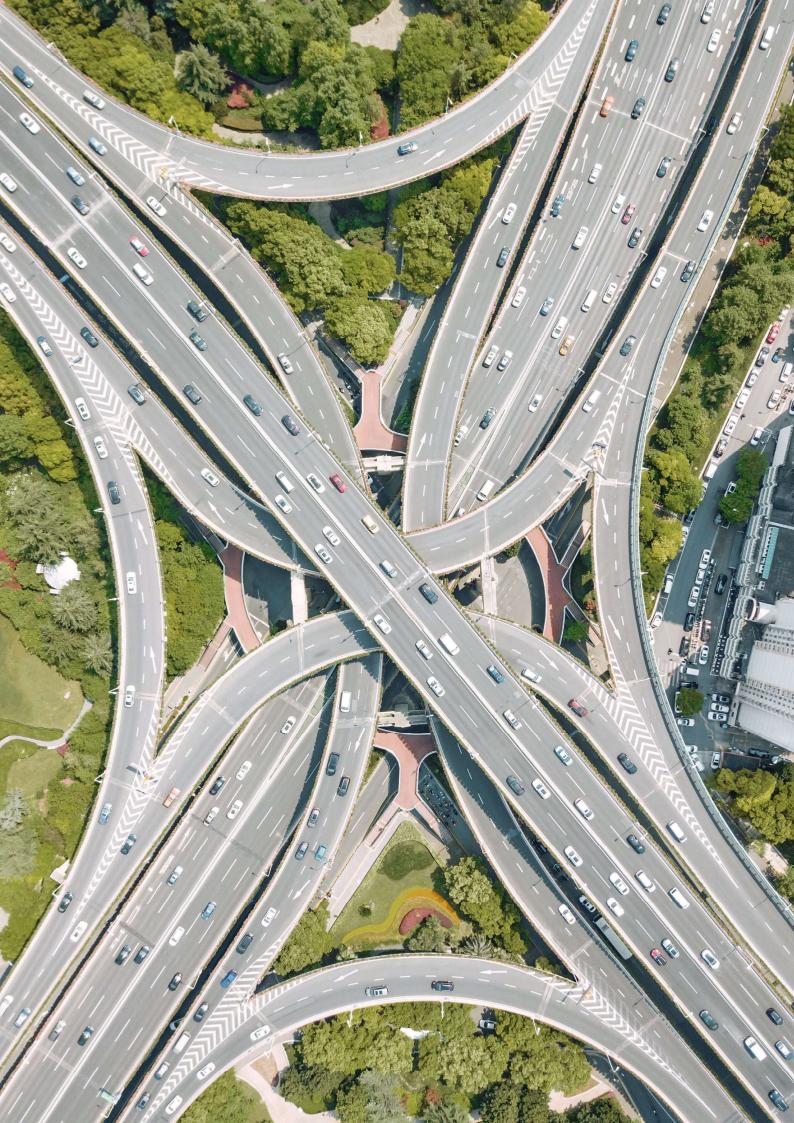
| Construction | | | |
|------------------|------------------------------|-------------------------|---------------------|
| Impedance | Material | Detail | Diameter |
| Centre conductor | Alluminium / copper | Wire | 2.74 mm |
| Dielectric | SPE (Foamed Polyethylene) | | 7.24 mm |
| Outer conductor | Aluminum / PES | longitudinal Foil, 100% | 7.4 mm |
| Outer conductor | Copper, Tin plated | Braid, 94% | 8.15 mm |
| Jacket | LSFH (modified polyethylene) | RAL 9005 – bk | 10.25 mm +/- 0.1 mm |

| Mechanical data | | |
|-------------------------|-----------------|--|
| Weight | approx. 115 g/m | |
| Static bending radius | ≥ 25 mm | |
| Repeated bending radius | ≥ 100 mm | |

| Environmental data | | |
|--------------------------|--|--|
| Operation temperature | −40 °C 85 °C | |
| Installation temperature | −20 °C 60 °C | |
| Fire characteristics | free of halogenes, acc. standard IEC 60754 | |

Additional information

ISO 6722-1 5.22 (UN ECE-R 118.01) compliant: qualifications ongoing.



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HUBER+SUHNER is certified to ISO 9001, ISO 14001, ISO 45001, EN/AS 9100, IATF 16949 and ISO/TS 22163-IRIS.

Waiver

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