

# Low-loss, Armoured, 50 Ohm, 2GHz, 85°C, Ø15.7mm, LSFH jacket

## S\_07262\_BD-AH

### Properties

- Alternative to standard SPUMA cables
- Low loss
- Low smoke
- Flame retardant
- Armoured



| Construction     |                                |                    |                     |
|------------------|--------------------------------|--------------------|---------------------|
| Component        | Material                       | Detail             | Diameter            |
| Centre conductor | Copper, Silver plated          | Strand-07          | 2.82 mm             |
| Dielectric       | SPE (Foamed Polyethylene)      |                    | 7.38 mm             |
| Outer conductor  | Copper, Silver plated          | Braid, 96%         | 8 mm                |
| Outer conductor  | Copper                         | Wrapped foil, 100% | 8.1 mm              |
| Outer conductor  | Copper, Tin plated             | Braid, 93%         | 9 mm                |
| Jacket           | LSFH (modified polyethylene)   | RAL 9005 - bk      | 10.8 mm +/- 0.15 mm |
| Armour           | Multi-end: Steel - zinc plated | Braid, 85%         |                     |
| Jacket           | LSFH (modified polyethylene)   | RAL 9005 - bk      | 15.7 mm +/- 0.35 mm |

| Electrical data                  |                |
|----------------------------------|----------------|
| Impedance                        | 50 Ω +/-1Ω     |
| Operating frequency              | ≤ 2 GHz        |
| Capacitance                      | 82 pF/m        |
| Velocity of signal propagation   | 81 %           |
| Signal delay                     | 4.1 ns/m       |
| Insulation resistance            | 100000000 MΩ*m |
| Inner conductor resistance       | 1.95 Ω/km      |
| Operating Voltage (at sea level) | ≤ 1.05 kVrms   |
| Test voltage (50 Hz/1 min)       | ≤ 2.1 kVrms    |

| Mechanical data         |                 |
|-------------------------|-----------------|
| Weight                  | approx. 405 g/m |
| Static bending radius   | ≥ 90 mm         |
| Repeated bending radius | 140 mm          |

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| Environmental data                                                                                        |                                    |                                    |                                    |
|-----------------------------------------------------------------------------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| Operation temperature                                                                                     | -40 °C ... 85 °C                   |                                    |                                    |
| Installation temperature                                                                                  | -20 °C ... 60 °C                   |                                    |                                    |
| Fire characteristics                                                                                      | free of halogenes                  |                                    |                                    |
|                                                                                                           |                                    |                                    |                                    |
| Suitable connectors                                                                                       |                                    |                                    |                                    |
| Cable group                                                                                               | S32                                |                                    |                                    |
|                                                                                                           |                                    |                                    |                                    |
| Ordering information                                                                                      |                                    |                                    |                                    |
| Item number                                                                                               | Item description                   | Available as assembly only         |                                    |
| 23023566                                                                                                  | S_07262_BD-AH                      | No                                 |                                    |
|                                                                                                           |                                    |                                    |                                    |
| Power Matrix                                                                                              |                                    |                                    |                                    |
| Calculation: typical Attenuation [ formula: (a*f^0.5 + b*f) ] and maximum Power CW [ formula: (p/f^0.5) ] |                                    |                                    |                                    |
| a coefficient typical =                                                                                   | 0.161                              | b coefficient typical =            | 0.0337                             |
| fmax =                                                                                                    | 2                                  | P at 1 GHz =                       | 520                                |
|                                                                                                           |                                    |                                    |                                    |
| Frequency<br>GHz                                                                                          | Nom. attenuation<br>(dB/m)         | Nom. attenuation<br>(dB/ft)        | CW power<br>(W)                    |
|                                                                                                           | sea level 25°C ambient temperature | sea level 25°C ambient temperature | sea level 40°C ambient temperature |
| 0.10                                                                                                      | 0.054                              | 0.017                              | 1644                               |
| 0.20                                                                                                      | 0.079                              | 0.024                              | 1163                               |
| 0.40                                                                                                      | 0.115                              | 0.035                              | 822                                |
| 0.60                                                                                                      | 0.145                              | 0.044                              | 671                                |
| 1.00                                                                                                      | 0.195                              | 0.059                              | 520                                |
| 1.50                                                                                                      | 0.248                              | 0.076                              | 425                                |
| 2.00                                                                                                      | 0.295                              | 0.090                              | 368                                |

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