

### RAMCRO - BMS-HFFR-BC-UnScreened Cable

For standard applications, flame retardant.

Multicore, PO-Insulation, UnScreened, LSZH/FRNC-Sheath

SSS0203HXEDH-RB

#### Application

LSZH - FRNC sheathed multi-conductor cables are suitable for Building Management Systems (BMS), Sound, Audio, Security, Safety, Control and Instrumenta

#### Construction

| Formation         | 2 Cores  | Unit | Nominal Value |
|-------------------|--|------|---------------|
| Section           | 16 AWG   |      |               |
| Conductor         | Plain annealed copper wire, Multistrand  | mm   | 1,5           |
| Insulation        | Polyolephine   | mm   | 1,9           |
| Colour Code       | Black, Red   |      |               |
| Individual Screen | N.A.   |      |               |
| Wrapping          | at least 1 layer of plastic tape 0,023 mm  |      |               |
| Collective Screen | N.A.   |      |               |
| Inner Sheath      | N.A.   |      |               |
| Armour            | N.A.   |      |               |
| Outer Sheath      | Thermoplastic Low Smoke, Halogen Free - LSZH (FRNC) - Purple RAL 4005  | mm   | 4,9           |
| Cable Printing    | RAMCRO ITALY R1712 AUDIO CONTROL & INSTRUMENTATION CABLE 2C<br>16AWG UNSCREENED LSZH (FRNC) 300 V 75 C IEC 60332-1/UL 1581 -<br>SSS0203HXEDH-RB - "PROD.WEEK/18" + BATCH + METER MARKING |      |               |

#### Technical Data & Standard References

|                                     |                      |                       |                              |
|-------------------------------------|----------------------|-----------------------|------------------------------|
| Fire Propagation:                   |                      |                       |                              |
| - Test on single cable              | IEC 60332-1          |                       |                              |
| - Test on bunched cables            | IEC 60332-3          |                       |                              |
| Limiting Oxygen Index (LOI)         | (min 37%)            | Type of Cable:        | BMS-HFFR-BC-UnScreened Cable |
| Smoke Density                       | IEC 61034            | Low Voltage Directive | 2014/35/UE                   |
| Amount of halogen acid gas          | ZERO                 | Other References:     |                              |
| Acidity (ph value) and conductivity | IEC 60754-2          |                       |                              |
| Sunlight resistance                 | UL 1581 section 1200 |                       |                              |
| Notes                               |                      |                       |                              |

#### Electrical & Mechanical Data

|                                 |           |        |                     |  |                    |
|---------------------------------|-----------|--------|---------------------|--|--------------------|
| Conductor Cross-section         | Nom.      | 16 AWG | Temperature Range:  |  |                    |
| DC Resistance per core at 20° C | max Ω/km  | 15,47  | During Operation    | ° C  | -30°C up to 80°C   |
| Insulation Resistance at 20° C  | min MΩ*km | 25     | During Installation | ° C  | -30°C up to 80°C   |
| Nominal Mutual Capacitance      | max pF/m  | 65     | Min. Bending Radius | mm   | 8 x cable diameter |
| Inductance                      | max mH/km | 1      | Max Pulling Tension | N/mm2  | 116                |
| Test Voltage - Core/Core        | V         | 2000   | Weight Approx       | kg/km  | 36                 |
| Test Voltage - Core/Screen      | V         | N.A.   | Put up length       | mt   | 305                |
| Operating Voltage               | V         | 300    |                     |  |                    |

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