

RAMCRO - BMS-HFFR-BC-Screened Cable For standard applications, flame retardant.

Multicore, PO-Insulation, Collective Screened, LSZH/FRNC-Sheath

SAS0401HXED-R8

Application

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


Construction

| | | Unit | Nominal Value |
|-------------------|--|------|---------------|
| Formation | 4 Cores | | |
| Section | 14 AWG | | |
| Conductor | Plain annealed copper wire, Multistrand | mm | 1,8 |
| Insulation | Polyolephine | mm | 2,3 |
| Colour Code | Black, Red, White, Green | | |
| Individual Screen | N.A. | | |
| Wrapping | at least 1 layer of plastic tape 0,023 mm | | |
| Collective Screen | 0,026 mm Aluminium / PETP tape over tinned copper drain wire | | |
| Inner Sheath | N.A. | | |
| Armour | N.A. | | |
| Outer Sheath | Thermoplastic Low Smoke, Halogen Free - LSZH (FRNC) - Purple RAL 4005 | mm | 6,8 |
| Cable Printing | RAMCRO ITALY R1705 AUDIO CONTROL & INSTRUMENTATION CABLE 4C 14AWG SCREENED LSZH (FRNC) 300 V 75 C IEC 60332-1/UL 1581 - SAS0401HXED-R8 - "PROD.WEEK/20" + BATCH + METER MARKING | | |

Technical Data & Standard References

| | | | |
|-------------------------------------|------------------------|-----------------------|----------------------------|
| Fire Propagation: | | Type of Cable: | BMS-HFFR-BC-Screened Cable |
| - Test on single cable | IEC 60332-1 | Low Voltage Directive | 2014/35/UE |
| - Test on bunched cables | IEC 60332-3 | Other References: | |
| Limiting Oxygen Index (LOI) | (min 37%) | | |
| Smoke Density | IEC 61034 | | |
| Amount of halogen acid gas | IEC 60754-1 (max 0,5%) | | |
| Acidity (ph value) and conductivity | IEC 60754-2 | | |
| Sunlight resistance | UL 1581 section 1200 | | |
| Notes | | | |

Electrical & Mechanical Data

| | | | | | |
|---------------------------------|------|--------|---------------------|---|-----------------------|
| Conductor Cross-section | Nom. | 14 AWG | Temperature Range: |  | |
| DC Resistance per core at 20° C | max | Ω/km | 9,36 | During Operation | ° C -30°C up to 80°C |
| Insulation Resistance at 20° C | min | MΩ*km | 1000 | During Installation | ° C -30°C up to 80°C |
| Nominal Mutual Capacitance | max | pF/m | 183 | | |
| Inductance | max | mH/km | 1 | Min. Bending Radius | mm 8 x cable diameter |
| Test Voltage - Core/Core | V | 2000 | Max Pulling Tension | N/mm2 | 385 |
| Test Voltage - Core/Screen | V | 2000 | Weight Approx | kg/km | 110 |
| Operating Voltage | V | 300 | Put up length | mt | 305 |

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