



## Technical Data

### Document Reference

20/00000

R1023

### RAMCRO - BMS-PVC-BC-Screened Cable

For standard applications, flame retardant.

Multicore, PP-Insulation, Collective Screened, PVC-Sheath

SAS0406HBAXX-RB

#### Application

PVC 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           | 20 AWG                                                                                                                                                                         |      |               |
| Conductor         | Plain annealed copper wire, 7 strand                                                                                                                                           | mm   | 0,9           |
| Insulation        | Polypropylene - PP                                                                                                                                                             | mm   | 1,3           |
| 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      | Polyvinyl chloride - PVC - Grey RAL 7001                                                                                                                                       | mm   | 4,6           |
| Cable Printing    | RAMCRO ITALY R1023 AUDIO CONTROL & INSTRUMENTATION CABLE 4C 20AWG<br>SCREENED PVC 300 V 75 C IEC 60332-1/UL 1581 - SAS0406HBAXX-RB -<br>"PROD.WEEK/18" + BATCH + METER MARKING |      |               |

#### Technical Data & Standard References

|                                     |                       |                       |                           |
|-------------------------------------|-----------------------|-----------------------|---------------------------|
| Fire Propagation:                   |                       | Type of Cable:        | BMS-PVC-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 30%)             |                       |                           |
| Smoke Density                       | IEC 61034             |                       |                           |
| Amount of halogen acid gas          | IEC 60754-1 (max 15%) |                       |                           |
| Acidity (ph value) and conductivity | IEC 60754-2           |                       |                           |
| Sunlight resistance                 | UL 1581 section 1200  |                       |                           |
| Notes                               |                       |                       |                           |

#### Electrical & Mechanical Data

|                                 |           |        |                     |                       |
|---------------------------------|-----------|--------|---------------------|-----------------------|
| Conductor Cross-section         | Nom.      | 20 AWG | Temperature Range:  |                       |
| DC Resistance per core at 20° C | max Ω/km  | 37,5   | 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  | 90     |                     |                       |
| Inductance                      | max mH/km | 1      | Min. Bending Radius | mm 8 x cable diameter |
| Test Voltage - Core/Core        | V         | 2000   | Max Pulling Tension | N/mm2 96              |
| Test Voltage - Core/Screen      | V         | 2000   | Weight Approx       | kg/km 36              |
| Operating Voltage               | V         | 300    | Put up length       | mt 305                |



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