

RAMCRO - DATA LAN KNX - EIB Cable

For standard applications, flame retardant.

Single Quad, PE-Insulation, Collective Screened, PVC-Sheath

SAM4108HIADH-RB

Application

KNX is a standardised (EN 50090, ISO/IEC 14543), OSI based network communications protocol for intelligent buildings. KNX is the successor to, and convergence of, three previous standard: the European Home Systems Protocol (EHS), BatiBUS, and European Installation Bus (EIB or InstaBUS)

Construction

| | | Unit | Nominal Value |
|-------------------|---|------|---------------|
| Formation | 1 Quad | | |
| Section | 0,8 mm | | |
| Conductor | Plain annealed copper wire, Solid | mm | 0,8 |
| Insulation | Polyethylene - PE | mm | 1,4 |
| Colour Code | Black, Red, White, Yellow | | |
| 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 - Green RAL 6018 | mm | 5,7 |
| Cable Printing | RAMCRO ITALY R1217 EIB CABLE 4x0.8mm SCREENED PVC - SAM4108HIADH-RB + "sett.prod/18" + Batch n° + Meter Marking | | |

Technical Data & Standard References

| | | | |
|-------------------------------------|-----------------------|-----------------------|--------------------------|
| Fire Propagation: | | Type of Cable: | DATA LAN KNX - EIB 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. | 0,8 mm | Temperature Range: | |
| DC Resistance per core at 20° C | max Ω /km | 37 | During Operation | ° C -30°C up to 80°C |
| Insulation Resistance at 20° C | min $M\Omega$ *km | 1000 | During Installation | ° C -30°C up to 80°C |
| Nominal Mutual Capacitance | max pF/m | 100 | | |
| Inductance | max mH/km | 1 | Min. Bending Radius | mm 8 x cable diameter |
| Test Voltage - Core/Core | V | 2000 | Max Pulling Tension | N/mm2 99 |
| Test Voltage - Core/Screen | V | 2000 | Weight Approx | kg/km 58 |
| Operating Voltage | V | 300 | Put up length | mt 305 |

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