



# Technical Data

Document Reference

Data Sheet

TC  
CABLE



## Ramcro Cable

For standard applications, flame retardant, Oil resistant

Multi-Core, PVC HT 105-Insulation, Collective Screen, PVC Oil Res.-Sheath

SAS0401HEACX-T-UL


PVC HT 105/CAM/PVC Oil Res.

### Application

These cables are designed to connect electronic instrumentation, analog and digital signal circuits. This cable does not spread flame to the top of the tray in the Vertical-Tray Flame Test in UL 1685.

| Construction      |   | 4x14AWG |               |
|-------------------|---|---------|---------------|
| Formation         | 4 Cores   | Unit    | Nominal Value |
| Section           | 14AWG   |         |               |
| Conductor         | Tinned copper wire, 7 strand  | mm      | 1,8           |
| Insulation        | Hi Temperature Polyvinylchloride - PVC HT 105°C   | mm      | 2,8           |
| Colour Code       | Customized Colors   |         |               |
| 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, Oil Resistant - Black   | mm      | 8,9           |
| Cable Printing    | RAMCRO ITALY TYPE TC - 4x14AWG CU CL2/PVC/CAM/PVC<br>600V MIL UL 1581 105°C MONTH/YEAR + BATCH + METER<br>MARKING |         |               |

| Technical Data & Standard References |                       |                       |            |
|--------------------------------------|-----------------------|-----------------------|------------|
| Fire Propagation:                    |                       | Type of Cable:        | TC Cable   |
| - Test on single cable               | IEC 60332-1           | Low Voltage Directive | 2014/35/UE |
| - Test on bunched cables             | IEC 60332-3           |                       |            |
| - Vertical Tray Flame Test           | UL1685                |                       |            |
| 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.      | 14AWG | Temperature Range:  ° C |
| DC Resistance per core at 20° C | max Ω/km  | 8,5   |  |
| Insulation Resistance at 20° C  | min MΩ*km | 25    | During Installation ° C  |
| Mutual Capacitance              | max nF/km | 250   | -5° C up to +50°C  |
| Inductance                      | max mH/km | 1     | Min. Bending Radius mm   |
| Test Voltage - Core/Core        | V         | 2000  | 10 x cable diameter  |
| Test Voltage - Core/Screen      | V         | 2000  | Weight Approx kg/km  |
| L/R Ratio                       | max μH/Ω  | 40    | 156  |
| Operating Voltage               | V         | 600   |  |

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