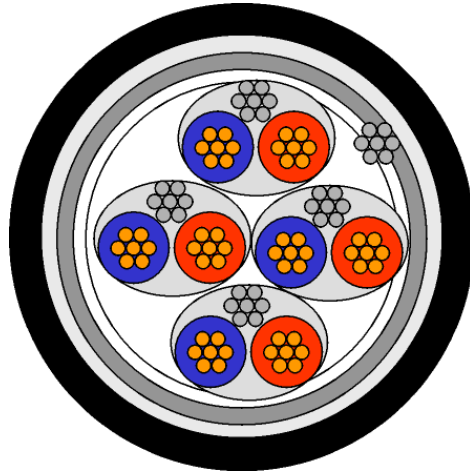




JAMAK[®]-ARM

Symmetrical Data Cable for industrial Control Equipment



Application

These symmetrical data transmission cables are used in control and supervision center for industrial sites. The cables with armouring and PE outer sheath are suitable for direct buried installation.

Flame resistance

Oxygen Index LOI acc. to ASTM-D-2863
Smoke emission acc. to ASTM-D-2843
IEC 60332-1

no limit
90 %

Construction

| | |
|--------------------------|---|
| Conductor | Stranded tinned copper 7x 0.29 mm |
| Insulation | PE (2Y) |
| Conductor identification | a-conductor blue; b-conductor red |
| Stranding | 2 conductors to pair |
| Stranding to core | (0+4) |
| Pair shielding | Laminated AL-foil + copper drain wire 0.5 mm ² |
| Overall shielding | Laminated AL-foil + copper drain wire 0.5 mm ² |
| Inner sheath | PVC (Y), grey |
| Armouring | Steel tape, helically wounded |
| Outer sheath | PE (2Y), black |

Mechanical properties

| | |
|-------------------------------|--------------------|
| Operating temperature | - 30 °C to + 70 °C |
| Min. Installation temperature | - 5 °C |



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Electrical properties

at 20°C

| | |
|--|---------------|
| Loop resistance | 81 Ω/km |
| Insulation resistance (at 500 V, 1 min.) | 2 GΩ*km |
| Capacitance at 800 Hz | 85 nF/km |
| Max. operating voltage | 75 V |
| Relative velocity factor NVP | 0.66 |
| Impedance (at 10 MHz) | 70 Ω +/- 10 % |
| Frequency | attenuation |
| [kHz] | [dB/100 m] |
| 9.6 | 0.3 |
| 19.2 | 0.5 |
| 64 | 0.7 |
| 100 | 0.9 |
| 200 | 1.6 |
| 1000 | 4.5 |

Technical data

| Part no. | Type | Dimension | Outer diameter mm | Standard length m | weight kg/km | Copper content |
|-----------------|-----------|--------------|----------------------|----------------------|-----------------|----------------|
| 1005536-01000DX | JAMAK-ARM | 4x(2+1)x0.5 | 13.5±0.5 | 1000 | 250 | 65 |
| 1005537-01000DX | JAMAK-ARM | 8x(2+1)x0.5 | 17.0±0.5 | 1000 | 390 | 125 |
| 1005538-01000DX | JAMAK-ARM | 12x(2+1)x0.5 | 19.0±0.8 | 1000 | 500 | 185 |
| 1005539-01000DX | JAMAK-ARM | 24x(2+1)x0.5 | 25.0±1.0 | 1000 | 850 | 365 |
| 1006412-00500DX | JAMAK-ARM | 48x(2+1)x0.5 | 33.0±1.5 | 500 | 1500 | 725 |