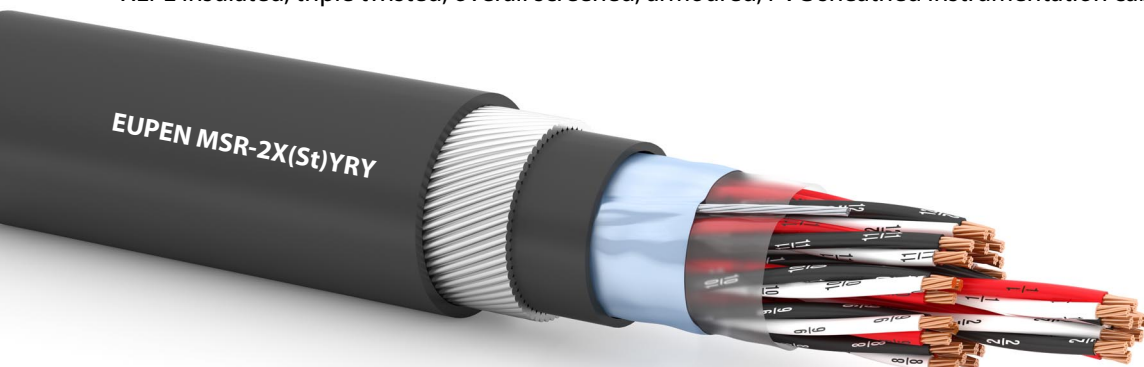


MSR-2X(St)YRY

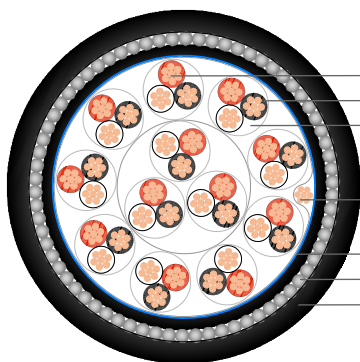
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Reference standard: EN 50288-7

XLPE insulated, triple twisted, overall screened, armoured, PVC sheathed instrumentation cable



Construction



1. Conductor: bare stranded copper
2. Insulation: cross-linked PE (XLPE)
3. Cabling elements: triple(s)
colour identification: BLACK/WHITE/RED, each core numbered
Cabling elements assembled in concentric layers
4. Overall screening: laminated Alu/PET tape (9 µm Alu/12 µm PET) in contact with a tinned copper drain wire 0,5 mm² (7x0,30 mm)
5. Inner sheath: flame-retardant PVC
6. Armoring: one layer of galvanized steel wires
7. Outer sheath: flame-retardant PVC
Outer sheath color: black or blue or according to customer specification
Outer sheath marking: EUPEN MSR-2X(St)YRY 12x3x1,3 mm² 300 V
+ year + meter-marking
or according to customer specification

Electrical Properties

| Voltage rating (V) | 300 V | | | | | |
|---|-------|-------|-------|-------|-------|-------|
| | 0,5 | 0,75 | 1,0 | 1,3 | 1,5 | 2,5 |
| Conductor cross-section (mm ²) | ≤36,7 | ≤25,0 | ≤18,5 | ≤14,2 | ≤12,3 | ≤7,56 |
| Conductor resistance @ 20 °C (Ω/km) | <150 | <150 | <150 | <150 | <150 | <150 |
| Mutual capacitance (nF/km) | <25 | <25 | <25 | <40 | <40 | <60 |
| L/R ratio (µH/Ω) | | | | | | |
| Test voltage core/core (V _{ac}) | | | | 1000 | | |
| Test voltage core/screen (V _{ac}) | | | | 1000 | | |
| Insulation resistance @ 20 °C (MΩ*km) | | | | >5000 | | |

Laying conditions

| | |
|-----------------------|---------------------|
| Operating temperature | -30 °C to +90 °C |
| Laying temperature | -5 °C to +50 °C |
| Min. bending radius | 10 x outer diameter |
| Oil resistance | ICEA S-82-552 |

Fire behaviour

| | |
|------------------|---|
| Fire propagation | IEC 60332-1 IEC 60332-3-22 Cat. A IEC 60332-3-24 Cat. C |
|------------------|---|

Application

Transmission of analog and digital signals for indoor and outdoor applications and suitable for strong mechanical requirements

**MSR-2X(St)YRY**

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| Number of triples | Insulation thickness Minimum mm | Inner sheath thickness Nominal mm | Diameter over inner sheath approx. mm | Steel wire armour diameter Nominal mm | Outer sheath thickness Nominal mm | Outer diameter approx. mm | Weight approx. kg/km |
|--|------------------------------------|--------------------------------------|--|--|--------------------------------------|------------------------------|-------------------------|
| Cross section 0,5 mm² / 7 | | | | | | | |
| 1 | 0,26 | 0,8 | 5,9 | 0,9 | 1,3 | 10,3 | 216 |
| 2 | 0,26 | 0,8 | 8,7 | 0,9 | 1,3 | 13,1 | 319 |
| 4 | 0,26 | 0,8 | 10,0 | 0,9 | 1,4 | 14,6 | 398 |
| 8 | 0,26 | 1,0 | 13,7 | 0,9 | 1,5 | 18,5 | 594 |
| 12 | 0,26 | 1,0 | 16,0 | 0,9 | 1,5 | 20,8 | 743 |
| 16 | 0,26 | 1,0 | 17,8 | 1,25 | 1,6 | 23,5 | 1030 |
| 24 | 0,26 | 1,0 | 21,9 | 1,25 | 1,7 | 27,8 | 1341 |
| Cross section 0,75 mm² / 7 | | | | | | | |
| 1 | 0,26 | 0,8 | 6,0 | 0,9 | 1,3 | 10,4 | 225 |
| 2 | 0,26 | 0,8 | 9,4 | 0,9 | 1,4 | 14,0 | 367 |
| 4 | 0,26 | 0,8 | 10,8 | 0,9 | 1,4 | 15,4 | 453 |
| 8 | 0,26 | 1,0 | 14,9 | 0,9 | 1,5 | 19,7 | 694 |
| 12 | 0,26 | 1,0 | 17,5 | 0,9 | 1,6 | 22,5 | 893 |
| 16 | 0,26 | 1,0 | 19,4 | 1,25 | 1,6 | 25,1 | 1220 |
| 24 | 0,26 | 1,0 | 24,0 | 1,25 | 1,7 | 29,9 | 1611 |
| Cross section 1,3 mm² / 7 | | | | | | | |
| 1 | 0,26 | 0,8 | 6,9 | 0,9 | 1,3 | 11,3 | 268 |
| 2 | 0,26 | 0,8 | 11,0 | 0,9 | 1,4 | 15,6 | 457 |
| 4 | 0,26 | 1,0 | 13,1 | 0,9 | 1,4 | 17,7 | 603 |
| 8 | 0,26 | 1,0 | 17,6 | 0,9 | 1,5 | 22,4 | 921 |
| 12 | 0,26 | 1,0 | 20,7 | 1,25 | 1,6 | 26,4 | 1368 |
| 16 | 0,26 | 1,0 | 23,1 | 1,25 | 1,7 | 29,0 | 1667 |
| 24 | 0,26 | 1,1 | 28,9 | 1,25 | 1,8 | 35,0 | 2261 |

All information given is indicative only and not binding and can be subject to change without notice.