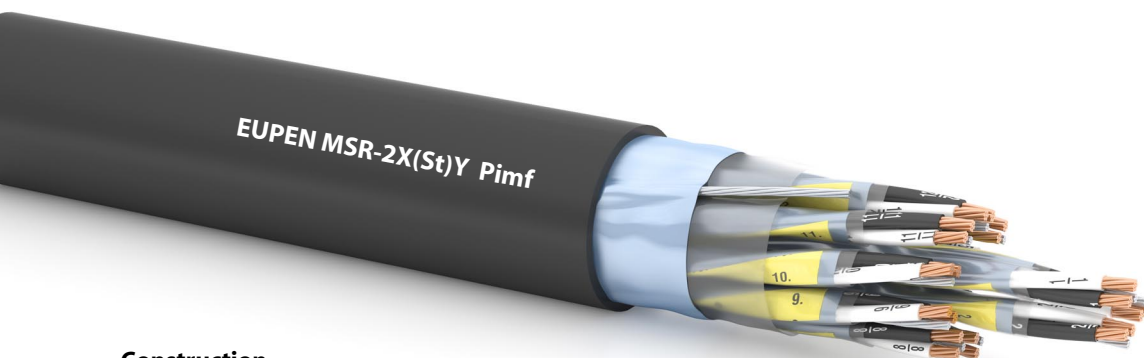


MSR-2X(St)Y Pimf

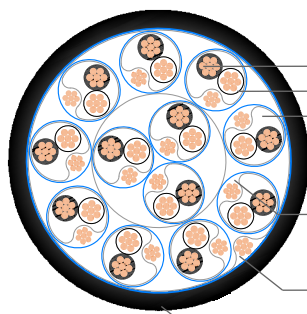
1/2

Reference standard: EN 50288-7

XLPE insulated, pair twisted, individual & overall screened, unarmoured, PVC sheathed instrumentation cable



Construction



1. Conductor: bare stranded copper
2. Insulation: cross-linked PE (XLPE)
3. Cabling elements: pairs
 colour identification: - insulation: BLACK/WHITE, each core numbered
 - additional black numbered yellow tape above each individual screened pair
4. Individual 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)
 Cabling elements assembled in concentric layers
5. 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)
6. Outer sheath: flame-retardant PVC
 Outer sheath color: black or blue or according to customer specification
 Outer sheath marking: EUPEN MSR-2X(St)Y Pimf 12x2x1,0 mm² 300V
 + 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) | | | | | | |
| Conductor resistance @ 20 °C (Ω/km) | ≤36,7 | ≤25,0 | ≤18,5 | ≤14,2 | ≤12,3 | ≤7,56 |
| Mutual capacitance (nF/km) | <150 | <150 | <150 | <150 | <150 | <150 |
| L/R ratio (µH/Ω) | <25 | <25 | <25 | <40 | <40 | <60 |
| Capacitance unbalance between pairs | < 500pF / 500m | | | | | |
| Test voltage core/core (V _{ac}) | 1000 | | | | | |
| Test voltage core/screen (V _{ac}) | 1000 | | | | | |
| Insulation resistance @ 20 °C (MΩ*km) | >1000 | | | | | |

Laying conditions

| | |
|-----------------------|----------------------|
| Operating temperature | -30 °C to +90 °C |
| Laying temperature | -5 °C to +50 °C |
| Min. bending radius | 7,5 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

**MSR-2X(St)Y Pimf**

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| Number of pairs | Insulation thickness min. mm | Outer sheath thickness nominal mm | Outer diameter approx. mm | Weight approx. kg/km |
|--|---------------------------------|--|------------------------------|-------------------------|
| Cross section 0,5 mm² / 7 | | | | |
| 2 | 0,26 | 0,9 | 9,3 | 90 |
| 4 | 0,26 | 1,0 | 10,8 | 138 |
| 8 | 0,26 | 1,1 | 14,4 | 241 |
| 12 | 0,26 | 1,2 | 17,0 | 342 |
| 16 | 0,26 | 1,2 | 18,8 | 440 |
| 24 | 0,26 | 1,4 | 23,2 | 633 |
| Cross section 0,75 mm² / 7 | | | | |
| 2 | 0,26 | 1,0 | 10,2 | 111 |
| 4 | 0,26 | 1,0 | 11,7 | 168 |
| 8 | 0,26 | 1,1 | 15,7 | 292 |
| 12 | 0,26 | 1,2 | 18,5 | 417 |
| 16 | 0,26 | 1,3 | 20,7 | 551 |
| 24 | 0,26 | 1,4 | 25,4 | 778 |
| Cross section 1,0 mm² / 7 | | | | |
| 2 | 0,26 | 1,0 | 10,9 | 129 |
| 4 | 0,26 | 1,0 | 12,5 | 196 |
| 8 | 0,26 | 1,2 | 17,1 | 353 |
| 12 | 0,26 | 1,3 | 20,1 | 507 |
| 16 | 0,26 | 1,3 | 22,1 | 652 |
| 24 | 0,26 | 1,5 | 27,7 | 947 |
| Cross section 1,3 mm² / 7 | | | | |
| 2 | 0,26 | 1,0 | 11,6 | 150 |
| 4 | 0,26 | 1,1 | 13,6 | 232 |
| 8 | 0,26 | 1,2 | 18,3 | 414 |
| 12 | 0,26 | 1,3 | 21,4 | 586 |
| 16 | 0,26 | 1,4 | 24,0 | 777 |
| 24 | 0,26 | 1,6 | 30,0 | 1131 |
| Cross section 1,5 mm² / 7 | | | | |
| 2 | 0,35 | 1,0 | 12,7 | 169 |
| 4 | 0,35 | 1,1 | 14,9 | 271 |
| 8 | 0,35 | 1,3 | 20,4 | 488 |
| 12 | 0,35 | 1,4 | 23,8 | 692 |
| 16 | 0,35 | 1,5 | 26,7 | 919 |
| 24 | 0,35 | 1,7 | 33,4 | 1332 |
| Cross section 2,5 mm² / 7 | | | | |
| 2 | 0,35 | 1,1 | 14,3 | 237 |

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