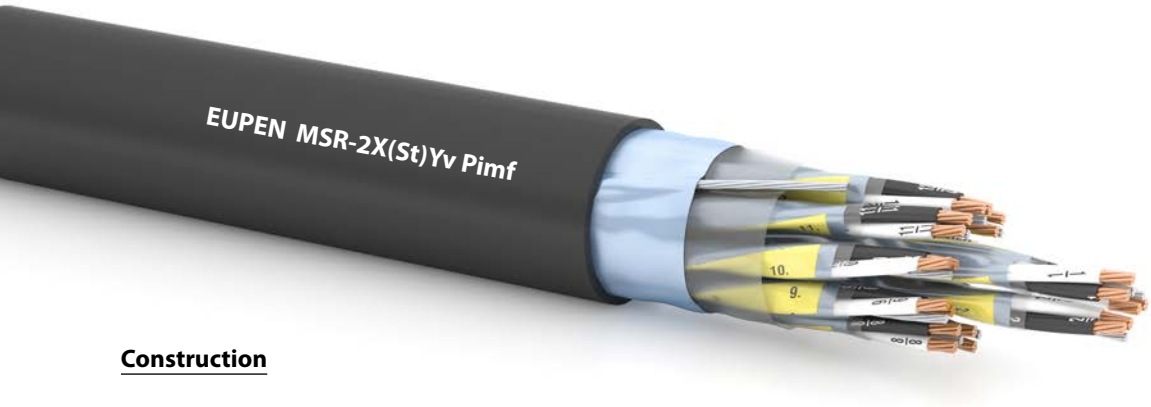
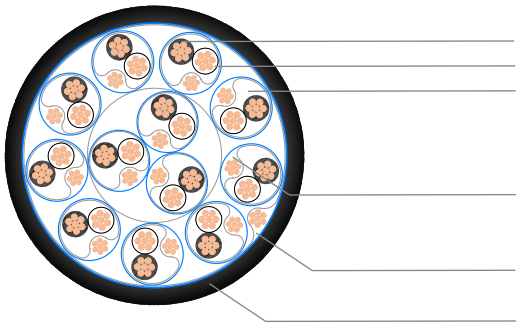
MSR-2X(St)Yv Pimf

Reference standard: EN 50288-7
XLPE insulated, pair twisted, individual & overall screened, unarmoured, reinforced 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: reinforced, flame-retardant PVC
   Outer sheath color: black or blue or according to customer specification
   Outer sheath marking: EUPEN MSR-2X(St)Yv Pimf 12x2x1,3 mm² 300V + year + meter-marking or according to customer specification

Electrical Properties

Voltage rating (V)	300 V					
Conductor cross-section (mm²)	**0,5**	**0,75**	**1,0**	**1,3**	**1,5**	**2,5**
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

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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	1,8	11,2	134
4	0,26	1,8	12,5	182
8	0,26	1,8	15,9	291
12	0,26	1,8	18,3	392
16	0,26	1,8	20,1	496
24	0,26	1,8	24,0	676
Cross section 0,75 mm² / 7				
2	0,26	1,8	11,9	152
4	0,26	1,8	13,4	215
8	0,26	1,8	17,2	345
12	0,26	1,8	19,8	472
16	0,26	1,8	21,8	603
24	0,26	1,8	26,2	825
Cross section 1,3 mm² / 7				
2	0,26	1,8	13,3	193
4	0,26	1,8	15,1	280
8	0,26	1,8	19,6	468
12	0,26	1,8	22,4	636
16	0,26	1,8	24,8	821
24	0,26	1,8	30,4	1158

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