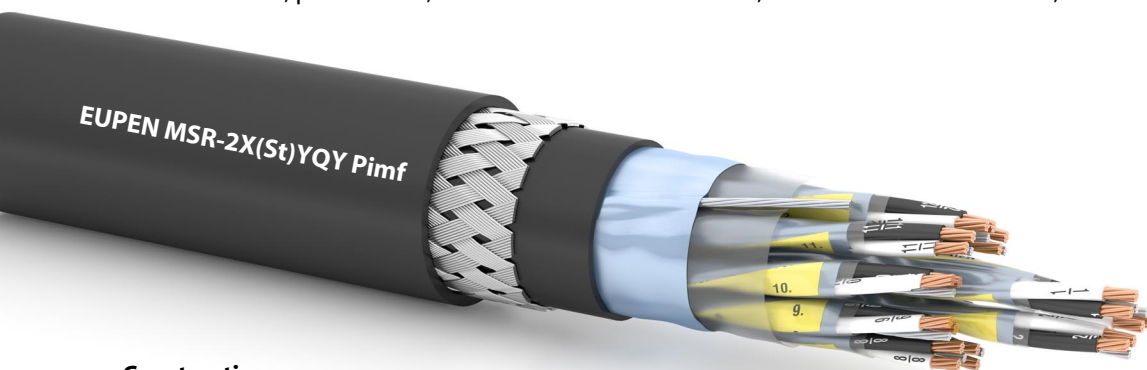


# MSR-2X(St)YQY-Pimf

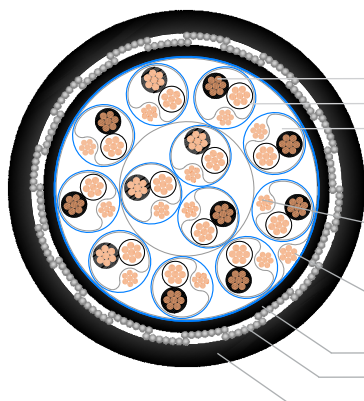
1/2

Reference standard: EN 50288-7

XLPE insulated, pair twisted, individual &amp; overall screened, steel wire braid armoured, 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 mm<sup>2</sup> (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 mm<sup>2</sup> (7x0,30 mm)
6. Inner sheath: flame-retardant PVC
7. Armoring: galvanized steel wire braid
8. Outer sheath: flame-retardant PVC  
 Outer sheath color: black or blue or according to customer specification  
 Outer sheath marking: EUPEN MSR-2X(St)YQY Pimf 12x2x1,3 mm<sup>2</sup> 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 <sup>2</sup> )	≤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 <sub>ac</sub> )				1000		
Test voltage core/screen (V <sub>ac</sub> )				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
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## Application

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

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

2/2

Number of pairs	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
<b>Cross section 0,5 mm<sup>2</sup> / 7</b>							
2	0,26	0,8	8,9	0,3	1,3	12,7	228
4	0,26	0,8	10,2	0,3	1,4	14,2	284
8	0,26	1,0	14,0	0,3	1,5	18,2	448
12	0,26	1,0	16,4	0,3	1,5	20,6	585
16	0,26	1,0	18,2	0,3	1,6	22,6	703
24	0,26	1,0	22,4	0,3	1,7	27,0	950
<b>Cross section 0,75 mm<sup>2</sup> / 7</b>							
2	0,26	0,8	9,6	0,3	1,4	13,6	256
4	0,26	0,8	11,1	0,3	1,4	15,1	329
8	0,26	1,0	15,3	0,3	1,5	19,5	520
12	0,26	1,0	17,9	0,3	1,6	22,3	677
16	0,26	1,0	19,9	0,3	1,6	24,3	829
24	0,26	1,1	24,8	0,4	1,7	29,8	1232
<b>Cross section 1,3 mm<sup>2</sup> / 7</b>							
2	0,26	0,8	11,0	0,3	1,4	15,0	312
4	0,26	1,0	13,2	0,3	1,4	17,2	426
8	0,26	1,0	17,7	0,3	1,5	21,9	662
12	0,26	1,0	20,8	0,3	1,6	25,2	879
16	0,26	1,0	23,2	0,3	1,7	27,8	1102
24	0,26	1,1	29,0	0,4	1,8	34,2	1644

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