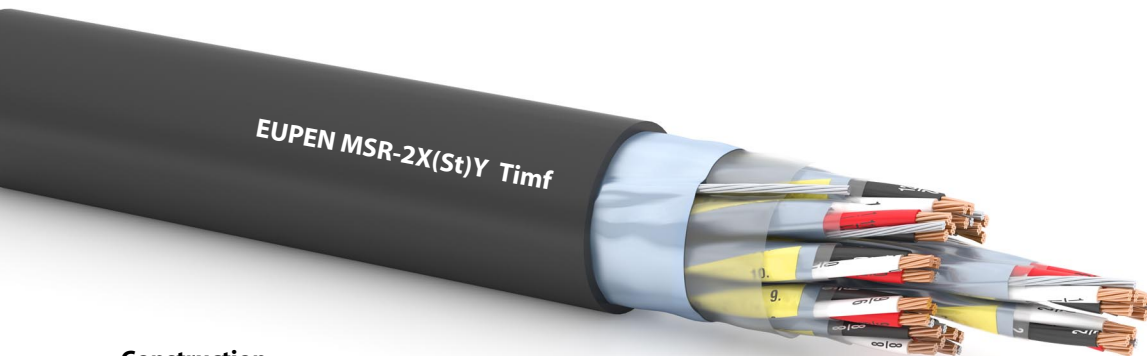


# MSR-2X(St)Y Timf

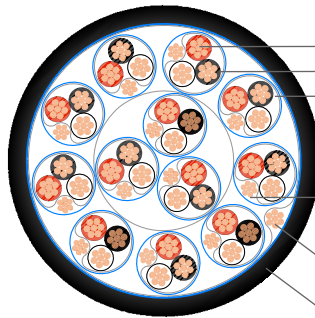
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Reference standard: EN 50288-7

XLPE insulated, triple twisted, individual &amp; overall screened, unarmoured, PVC sheathed instrumentation cable



## Construction



1. Conductor: bare stranded copper
2. Insulation: cross-linked PE (XLPE)
3. Cabling elements: triples  
 colour identification: - insulation: BLACK/WHITE/RED, each core numbered  
 - additional black numbered yellow tape above each individual screened triple
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. Outer sheath: flame-retardant PVC  
 Outer sheath color: black or blue or according to customer specification  
 Outer sheath marking: EUPEN MSR-2X(St)Y Timf 12x3x1,3 mm<sup>2</sup> 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 <sup>2</sup> )						
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
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	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
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## Application

Transmission of analog and digital signals for indoor and outdoor applications

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

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Number of triples	Insulation thickness Minimum 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	1,0	10,4	114
4	0,26	1,0	12,0	171
8	0,26	1,1	16,1	302
12	0,26	1,2	18,9	433
16	0,26	1,3	21,0	564
24	0,26	1,5	26,2	819
<b>Cross section 0,75 mm<sup>2</sup> / 7</b>				
2	0,26	1,0	11,2	137
4	0,26	1,1	13,1	218
8	0,26	1,2	17,6	383
12	0,26	1,3	20,7	549
16	0,26	1,4	23,0	715
24	0,26	1,6	28,7	1044
<b>Cross section 1,3 mm<sup>2</sup> / 7</b>				
2	0,26	1,0	12,9	188
4	0,26	1,1	15,1	308
8	0,26	1,3	20,7	563
12	0,26	1,4	24,2	803
16	0,26	1,5	27,1	1067
24	0,26	1,7	34,0	1553

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