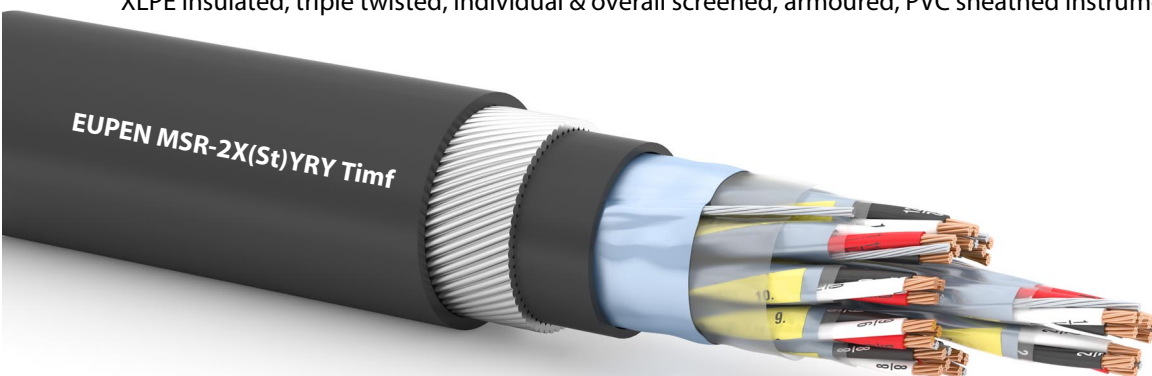


# MSR-2X(St)YRY Timf

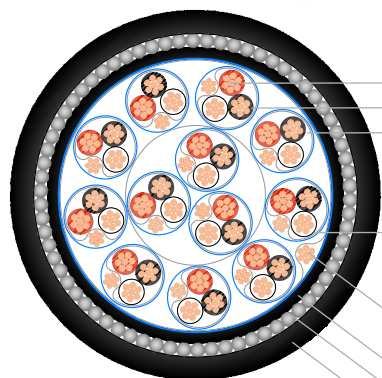
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Reference standard: EN 50288-7

XLPE insulated, triple twisted, individual &amp; overall screened, armoured, 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. Inner sheath: flame-retardant PVC
7. Armoring: one layer of galvanized steel wires
8. Outer sheath: flame-retardant PVC  
 Outer sheath color: black or blue or according to customer specification  
 Outer sheath marking: EUPEN MSR-2X(St)YRY Timf 12x3x1,3 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> )						
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	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)YRY Timf**

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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
<b>Cross section 0,5 mm<sup>2</sup> / 7</b>							
2	0,26	0,8	9,8	0,9	1,4	14,4	376
4	0,26	0,8	11,4	0,9	1,4	16,0	464
8	0,26	1,0	15,7	0,9	1,5	20,5	716
12	0,26	1,0	18,3	1,25	1,6	24,0	1050
16	0,26	1,0	20,4	1,25	1,6	26,1	1244
24	0,26	1,1	25,4	1,25	1,8	31,5	1669
<b>Cross section 0,75 mm<sup>2</sup> / 7</b>							
2	0,26	0,8	10,6	0,9	1,4	15,2	420
4	0,26	1,0	12,7	0,9	1,5	17,5	559
8	0,26	1,0	17,0	0,9	1,6	22,0	826
12	0,26	1,0	19,9	1,25	1,6	25,6	1209
16	0,26	1,0	22,2	1,25	1,7	28,1	1460
24	0,26	1,1	27,7	1,25	1,8	33,8	1959
<b>Cross section 1,30 mm<sup>2</sup> / 7</b>							
2	0,26	1,0	12,7	0,9	1,4	17,3	534
4	0,26	1,0	14,7	0,9	1,5	19,5	693
8	0,26	1,0	19,9	1,25	1,6	25,6	1222
12	0,26	1,0	23,4	1,25	1,7	29,3	1586
16	0,26	1,1	26,3	1,25	1,8	32,4	1943
24	0,26	1,2	33,0	1,6	1,9	40,0	2896

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