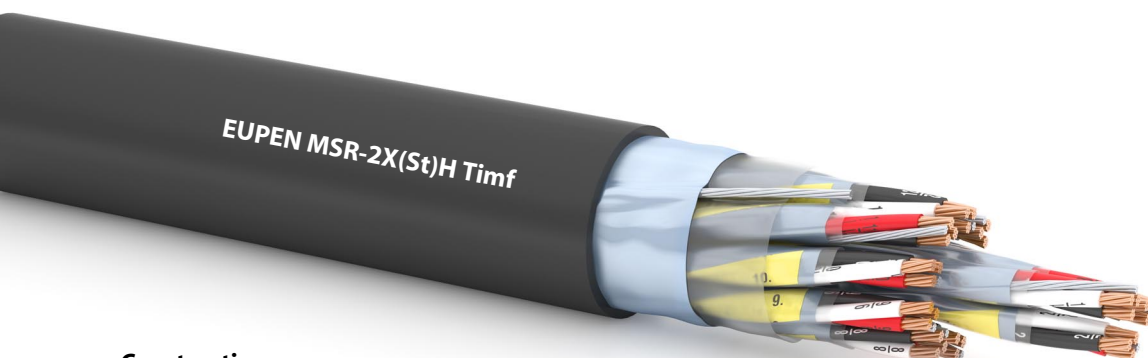


MSR-2X(St)H Timf

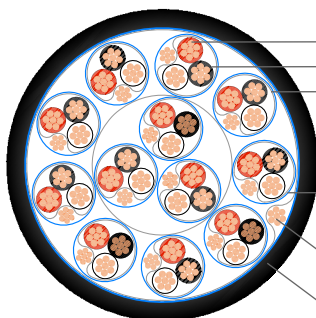
1/2

Reference standard: EN 50288-7

XLPE insulated, triple twisted, individual & overall screened, unarmoured, halogen-free 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 (9µm Alu/12µm PET) in contact with a tinned copper drain wire 0,5 mm² (7x0,30mm)
 Cabling elements assembled in concentric layers
5. Overall screening: laminated Alu/PET tape (9µm Alu/12µm PET) in contact with a tinned copper drain wire 0,5 mm² (7x0,30mm)
6. Outer sheath: halogen-free, fire-retardant polymer compound
 Outer sheath color: black or blue or according to customer specification
 Outer sheath marking: EUPEN MSR-2X(St)H Timf 12x3x1,3mm² 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)	≤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 _{ac})	1000					
Test voltage core/screen (V _{ac})	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

Fire behaviour

Fire propagation	IEC 60332-1 IEC 60332-3-22 Cat. A IEC 60332-3-24 Cat. C
Smoke density	IEC 61034-1+2
Corrosivity of combustion gas	IEC 60754-2
Toxicity of combustion gas	NF X 70-100

Application

Transmission of analog and digital signals for indoor and outdoor (in suitable cable trays) applications where improved fire behaviour is requested.

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

2/2

Number of triples	Insulation thickness Minimum mm	Outer sheath thickness Nominal mm	Outer diameter approx. mm	Weight approx. kg/km
Cross section 0,5 mm² /7				
2	0,26	1,0	10,4	121
4	0,26	1,0	12,0	176
8	0,26	1,1	16,1	308
12	0,26	1,2	18,9	441
16	0,26	1,3	21,0	562
24	0,26	1,5	26,2	816
Cross section 0,75 mm² /7				
2	0,26	1,0	11,2	146
4	0,26	1,1	13,1	223
8	0,26	1,2	17,6	390
12	0,26	1,3	20,7	548
16	0,26	1,4	23,0	713
24	0,26	1,6	28,7	1041
Cross section 1,3mm² /7				
2	0,26	1,0	12,9	199
4	0,26	1,1	15,1	313
8	0,26	1,3	20,7	562
12	0,26	1,4	24,2	801
16	0,26	1,5	27,1	1063
24	0,26	1,7	34,0	1550

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