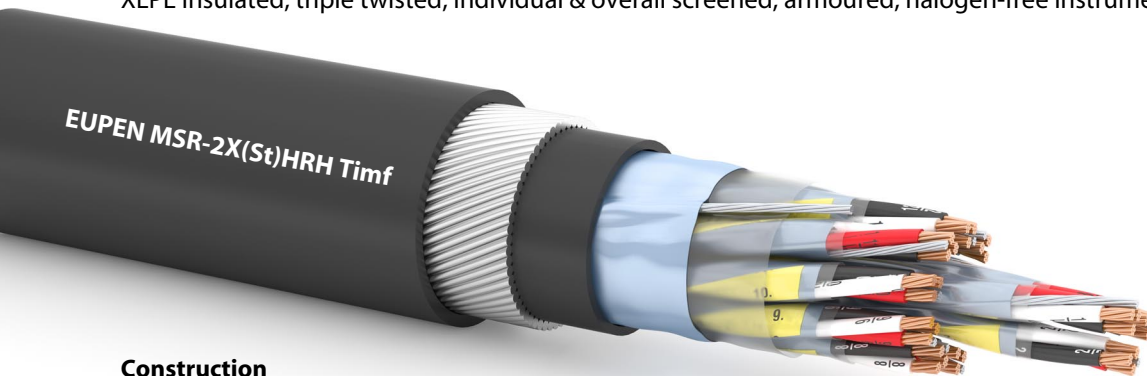


MSR-2X(St)HRH Timf

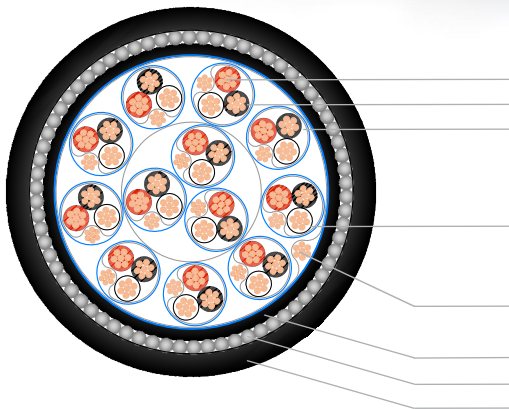
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Reference standard: EN 50288-7

XLPE insulated, triple twisted, individual & overall screened, armoured, 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 (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. Inner sheath: halogen-free, fire-retardant polymer compound
7. Armoring: one layer of galvanized steel wires
8. 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)HRH Timf 12x3x1,3 mm² 300 V
 + year + meter-marking
 or according to customer specification

Electrical Properties

	300 V					
	0,5	0,75	1,0	1,3	1,5	2,5
Voltage rating (V)						
Conductor cross-section (mm ²)						
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 _{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	10 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.
 With improved fire behaviour and suitable for strong mechanical requirements.

**MSR-2X(St)HRH 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
Cross section 0,5 mm² /7							
2	0,26	0,8	9,8	0,9	1,4	14,4	374
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	713
12	0,26	1,0	18,3	1,25	1,6	24,0	1047
16	0,26	1,0	20,4	1,25	1,6	26,9	1257
24	0,26	1,1	25,4	1,25	1,8	32,3	1683
Cross section 0,75 mm² /7							
2	0,26	0,8	10,6	0,9	1,4	15,2	419
4	0,26	1,0	12,7	0,9	1,5	17,5	556
8	0,26	1,0	17,0	0,9	1,6	22,0	824
12	0,26	1,0	19,9	1,25	1,6	26,4	1220
16	0,26	1,0	22,2	1,25	1,7	28,9	1473
24	0,26	1,1	27,7	1,25	1,8	34,6	1974
Cross section 1,3 mm² /7							
2	0,26	1,0	12,7	0,9	1,4	17,3	532
4	0,26	1,0	14,7	0,9	1,5	19,5	690
8	0,26	1,0	19,9	1,25	1,6	26,4	1233
12	0,26	1,0	23,4	1,25	1,7	30,1	1600
16	0,26	1,1	26,3	1,25	1,8	33,2	1957
24	0,26	1,2	33,0	1,6	1,9	40,8	2912

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