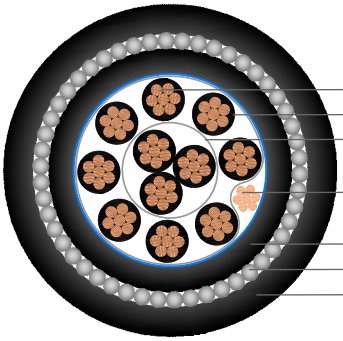
MSR-2X(St)YRY

Reference standard: EN 50288-7
XLPE insulated, twisted, overall screened, armoured, PVC sheathed instrumentation cable

Construction



1. Conductor: bare stranded copper
2. Insulation: cross-linked PE (XLPE)
3. Cabling elements: twisted cores
   identification: BLACK, each core numbered
4. 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)
5. Inner sheath: flame-retardant PVC
6. Armoring: one layer of galvanized steel wires
7. Outer sheath: flame-retardant PVC
   Outer sheath color: black or blue or according to customer specification
   Outer sheath marking: EUPEN MSR-2X(St)YRY 5x1,5 mm² 500 V
   + year + meter-marking
   or according to customer specification

Electrical Properties

Voltage rating (V)	500 V					
Conductor cross-section (mm²)	**0,5**	**0,75**	**1,0**	**1,3**	**1,5**	**2,5**
Conductor resistance @ 20 °C (Ω/km)	≤36	≤24,5	≤18,1	≤13,9	≤12,1	≤7,41
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})	2000					
Test voltage core/screen (V_{ac})	2000					
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

Application

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

MSR-2X(St)YRY

Number of cores	Insulation thickness Minimum mm	Outer sheath thickness Nominal mm	Outer diameter approx. mm	Weight approx. kg/km
Cross section 1,5 mm² / 7				
5	0,44	1,4	14,5	413
7	0,44	1,4	15,3	471
12	0,44	1,5	19,1	687
16	0,44	1,5	20,7	813
19	0,44	1,5	21,5	893
24	0,44	1,6	25,2	1234
27	0,44	1,6	25,6	1305
33	0,44	1,7	27,4	1498
37	0,44	1,7	28,2	1600
Cross section 2,5 mm² / 7				
5	0,53	1,4	16,5	537
7	0,53	1,5	17,7	625
12	0,53	1,6	21,8	897
16	0,53	1,6	24,4	1230
19	0,53	1,6	25,4	1354
24	0,53	1,7	29,0	1640
27	0,53	1,7	29,7	1758
33	0,53	1,8	31,8	2034
37	0,53	1,8	32,8	2179