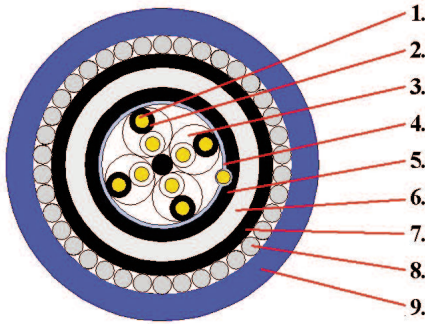


MSR-2Y(St)YKYRY

1/1

PE insulated, overall screened, lead protected and armoured, PVC sheathed instrumentation cable

Construction



1. Conductor: bare annealed copper, stranded, cl. 2 acc. IEC 60228
2. Insulation: PE
3. Cabling elements: pairs or triples
 colour identification: pairs: BLACK/WHITE, each core numbered
 triples: BLACK/WHITE/RED, each core numbered
 Cabling elements assembled in concentric layers
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. First inner sheath: flame-retardant PVC
6. Metallic sheath (humidity barrier): lead alloy type "E"
7. Second inner sheath: flame-retardant PVC
8. Armoring: one layer of galvanized steel wires
9. Outer sheath: flame-retardant PVC
 Outer sheath color: black or blue or according to customer specification
 Outer sheath marking: EUPEN MSR-2Y(St)YKYRY 4x2x1,0 mm² 300 V
 + year + meter-marking
 or according to customer specification

Electrical Properties acc. to EN 50288-7 (valid for single- and multi pair/triple types)

Voltage rating (V)	300 V				500 V			
	0,5	0,75	1,0	1,5	0,75	1,0	1,5	2,5
Conductor cross-section (mm ²)	≤36,7	≤25,0	≤18,5	≤12,3	≤25,0	≤18,5	≤12,3	≤7,56
Conductor resistance @ 20 °C (Ω/km)	≤36,7	≤25,0	≤18,5	≤12,3	≤25,0	≤18,5	≤12,3	≤7,56
Mutual capacitance * (nF/km)								
single pair:	≤115	≤115	≤115	≤115	≤115	≤115	≤115	≤115
≤ 4 pairs:	≤90	≤90	≤90	≤90	≤90	≤90	≤90	≤90
> 4 pairs:	≤75	≤75	≤75	≤75	≤75	≤75	≤75	≤75
L/R ratio * (µH/Ω)	<25	<25	<25	<40	<25	<25	<40	<60
Test voltage core/core (V _{ac})	1000				2000			
Test voltage core/screen (V _{ac})	1000				2000			
Insulation resistance @ 20 °C (MΩ*km)	>5000				>5000			

* valid for pair cables

Laying conditions

Operating temperature	-30 °C to +70 °C
Laying temperature	-5 °C to +50 °C
Min. bending radius	15 x outer diameter
Oil resistance	ICEA S-82-552

Fire behaviour

Fire propagation	IEC 60332-1 (IEC 60332-3 Cat. A or Cat.C on request)
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Application

Transmission of analog and digital signals for indoor and outdoor applications. Suitable for strong mechanical and chemical requirements, especially in petrochemical environment.