

ICON[®] Instrumentation Cable Flame Retardant, Sunlight Resistant

EN 50288-7
70 °C / 300 V

Multi-Triple, PE-Insulation, Individual & Collective Screen, Armour, PVC Sheath

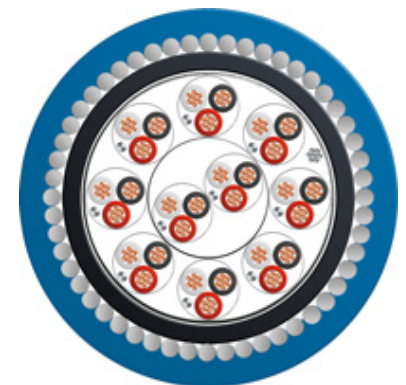
RE-2Y(St)YSWAY-fl TiMF

Application

For transmission of analogue and digital signals in instrument and control systems; allowed for use in zone 1 and zone 2 group II classified areas (IEC 60079-14); not allowed for direct connection to low impedance source, e.g. the public mains electricity supply.
Recommended for indoor and outdoor installation, on racks, trays, in conduits, in dry and wet locations; for direct burial.

Construction

Conductor.....	plain annealed copper, 7 stranded, size, 0.75 mm ² , 1.3 mm ² , 1.5 mm ²
Insulation.....	polyethylene PE
Colour code.....	black / white / red, continuously numbered on blue core (1, 2..) for multitruples
Individual screen.....	24 µm aluminium PETP tape over solid tinned copper drain wire, 0.6 mm Ø, plastic tape under and above screen
Wrapping.....	at least 1 layer of plastic tape
Collective screen.....	24 µm aluminium PETP tape over 7-stranded tinned copper drain wire, 0.5 mm ²
Inner sheath.....	polyvinylchloride PVC, black
Armour.....	galvanised round steel wires
Outer sheath.....	polyvinylchloride PVC, black; blue for intrinsically safe systems
Cable marking.....	LEONI KERPEN ICON INSTRUMENTATION CABLE 300 V RP EN 50288-7 CE PLC LM



Technical data

Flame propagation	
Test on single cable	IEC 60332-1-2
Test on bunched cables	IEC 60332-3-24 (Cat. C)
Sunlight resistance	UL 1581 section 1200
Oil resistance	ICEA S-73-532

Temperature range:
-30 °C up to 70 °C
(during operation)
-5 °C up to 50 °C
(during installation)
Min. bending radius:
10 x cable-Ø

Abbreviations

RE-	Instrumentation Cable
2Y	insulation of PE
(St)	collective screen
Y	inner sheath of PVC
SWA	steel wire armour
Y	outer sheath of PVC
-fl	with reduced flame propagation
TiMF	triple in metal foil
PLC	Production Lot Code
LM	Length Marking

Electrical data at 20 °C

	nom.	mm ²	0.75	1.3	1.5
Conductor	nom.	mm ²	0.75	1.3	1.5
Conductor resistance	max.	Ω/km	25.0	14.2	12.3
Insulation resistance	min.	MΩ x km	5000		
Mutual capacitance	max.	nF/km	115		
Inductance	max.	mH/km	1		
L/R (ratio)	max.	µH/Ω	25	40	
Test voltage U _{rms} (core : core)		V	1500		
Test voltage U _{rms} (core : screen)		V	1500		
Operating voltage		V	300		

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Geometrical data

No. of elem.	RT of insulation nom. mm	RT of inner sheath nom. mm	Ø over inner sheath approx. mm	Ø of armour wire nom. mm	RT of outer sheath nom. mm	Overall diameter approx. mm	Cable weight approx. kg/km	Part. No. Colour blue
0.75 mm²/7								
8	0.38	1.3	16.9	1.25	1.6	22.6	912	7093D523
12	0.38	1.4	19.9	1.25	1.7	25.8	1152	7093D529
20	0.38	1.6	25.1	1.60	1.9	32.1	1815	7093D535
1.3 mm²/7								
6	0.45	1.3	18.8	1.25	1.7	24.7	1067	7093D580
12	0.45	1.5	24.0	1.25	1.8	30.1	1568	7093D589
1.5 mm²/7								
8	0.45	1.4	21.1	1.25	1.8	27.2	1313	7093D613

RT = Radial Thickness