

ICON[®] Instrumentation Cable Flame Retardant, Sunlight Resistant

EN 50288-7
70 °C / 300 V

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

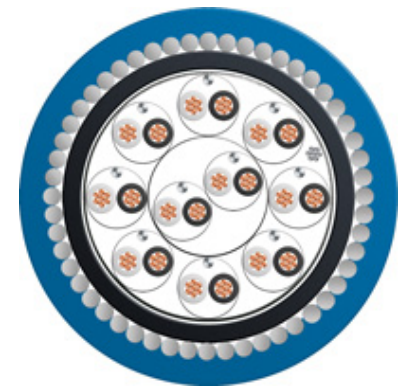
RE-2Y(St)YSWAY-fl PiMF

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 mm ² , 1.3 mm ²
Insulation.....	polyethylene PE
Colour code.....	black / white, continuously numbered on white core (1, 2..) for multipair
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
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
PiMF	pair in metal foil
PLC	Production Lot Code
LM	Length Marking

Electrical data at 20 °C

	nom.	mm ²	0.75	1	1.3
Conductor	nom.	mm ²	0.75	1	1.3
Conductor resistance	max.	Ω/km	25.0	18.5	14.2
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	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								
2	0.38	1.0	9.7	0.90	1.4	14.3	343	7093D196
4	0.38	1.0	11.2	0.90	1.4	15.8	426	7093D199
5	0.38	1.1	12.5	0.90	1.5	17.3	499	7093D202
6	0.38	1.2	13.8	0.90	1.5	18.6	567	7093D205
8	0.38	1.2	14.7	0.90	1.6	19.7	641	7093D208
12	0.38	1.3	17.6	1.25	1.7	23.5	947	7093D214
16	0.38	1.3	19.8	1.25	1.7	25.7	1127	7093D217
24	0.38	1.5	24.1	1.25	1.8	30.2	1492	7093D223
1 mm²/7								
2	0.4	1.0	10.4	0.90	1.4	15.0	379	7093D226
12	0.4	1.4	19.3	1.25	1.7	25.2	1089	7093D244
24	0.4	1.6	26.4	1.60	1.9	33.4	1922	7093D253
1.3 mm²/7								
2	0.45	1.1	11.6	0.90	1.5	16.4	454	7093D256
4	0.45	1.2	13.7	0.90	1.5	18.5	564	7093D259
6	0.45	1.3	16.5	1.25	1.6	22.2	862	7093D265
8	0.45	1.3	17.6	1.25	1.7	23.5	983	7093D268
12	0.45	1.4	21.2	1.25	1.8	27.3	1262	7093D274
16	0.45	1.5	24.1	1.25	1.8	30.2	1528	7093D277
24	0.45	1.7	29.2	1.60	2.0	36.4	2260	7093D283

RT = Radial Thickness