

## ICON<sup>®</sup> Instrumentation Cable Flame Retardant, Sunlight Resistant

**EN 50288-7**  
**70 °C / 300 V**

Single & Multi-pair, PE-Insulation, Collective Screen, Armour, PVC Sheath

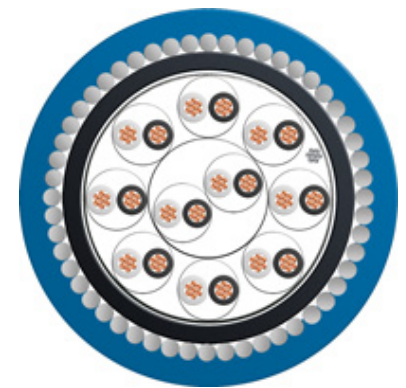
### RE-2Y(St)YSWAY-fl

#### 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, 0.5 mm <sup>2</sup> , 0.75 mm <sup>2</sup> , 1 mm <sup>2</sup> , 1.3 mm <sup>2</sup> , 1.5 mm <sup>2</sup>
Insulation.....	polyethylene PE
Colour code.....	black / white, continuously numbered on white core (1, 2..) for multipair
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 <sup>2</sup>
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
PLC	Production Lot Code
LM	Length Marking

#### Electrical data at 20 °C

	nom.	mm <sup>2</sup>	0.5	0.75	1	1.3	1.5
Conductor	nom.	mm <sup>2</sup>	0.5	0.75	1	1.3	1.5
Conductor resistance	max.	Ω/km	36.7	25.0	18.5	14.2	12.3
Insulation resistance	min.	MΩ x km	5000				
Mutual capacitance	max.	nF/km					
single pair:				115	115	115	115
up to 4 pairs:				90	90	102	
above 4 pairs:			75	75		85	85
Capacitance unbalance		pF/500 m	500				
Inductance	max.	mH/km	1				
L/R (ratio)	max.	µH/Ω	25	25	25	40	40
Test voltage U <sub>rms</sub> (core : core)		V	1500				
Test voltage U <sub>rms</sub> (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
<b>0.5 mm<sup>2</sup>/7</b>								
16	0.35	1.2	15.4	1.25	1.6	21.1	798	7093D022
<b>0.75 mm<sup>2</sup>/7</b>								
1	0.38	0.9	5.8	0.90	1.3	10.2	200	7093D031
2	0.38	1.0	8.7	0.90	1.4	13.3	309	7093D034
4	0.38	1.0	10.0	0.90	1.4	14.6	372	7093D037
6	0.38	1.1	12.0	0.90	1.5	16.8	483	7093D040
8	0.38	1.1	12.8	0.90	1.5	17.6	536	7093D043
12	0.38	1.2	15.3	1.25	1.6	21.0	803	7093D049
16	0.38	1.3	17.5	1.25	1.7	23.4	969	7093D052
20	0.38	1.4	19.4	1.25	1.7	25.3	1120	7093D055
24	0.38	1.4	21.0	1.25	1.8	27.1	1264	7093D058
<b>1 mm<sup>2</sup>/7</b>								
1	0.4	0.9	6.3	0.90	1.3	10.7	220	7093D061
2	0.4	1.0	9.4	0.90	1.4	14.0	338	7093D064
<b>1.3 mm<sup>2</sup>/7</b>								
1	0.45	0.9	6.8	0.90	1.3	11.2	242	7093D091
2	0.45	1.0	10.4	0.90	1.4	15.0	384	7093D094
4	0.45	1.0	12.0	0.90	1.4	16.6	479	7093D097
8	0.45	1.2	15.7	1.25	1.6	21.4	847	7093D103
12	0.45	1.4	19.1	1.25	1.7	25.0	1116	7093D109
16	0.45	1.5	21.8	1.25	1.8	27.9	1367	7093D112
20	0.45	1.5	24.0	1.25	1.8	30.1	1569	7093D115
24	0.45	1.6	26.1	1.60	1.9	33.1	1969	7093D118
<b>1.5 mm<sup>2</sup>/7</b>								
1	0.45	0.9	7.1	0.90	1.3	11.5	254	7093D121
12	0.45	1.4	19.9	1.25	1.7	25.8	1203	7093D139

RT = Radial Thickness