

ICON[®] Instrumentation Cable

Flame Retardant, Sunlight Resistant

EN 50288-7
70 °C / 300 V

Single & Multi-Triple, 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, 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
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
PLC	Production Lot Code
LM	Length Marking

Electrical data at 20 °C

	nom.	mm ²	1.3	1.5
Conductor	nom.	mm ²	1.3	1.5
Conductor resistance	max.	Ω/km	14.2	12.3
Insulation resistance	min.	MΩ x km	5000	
Mutual capacitance	max.	nF/km		
single triple:			115	115
up to 4 triples:				102
above 4 triples:			85	85
Inductance	max.	mH/km	1	
L/R (ratio)	max.	µH/Ω	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
1.3 mm²/7								
1	0.45	0.9	7.2	0.90	1.4	11.8	278	7093D415
12	0.45	1.5	21.8	1.25	1.8	27.9	1425	7093D436
1.5 mm²/7								
1	0.45	0.9	7.5	0.90	1.4	12.1	294	7093D448
4	0.45	1.2	14.2	0.90	1.5	19.0	659	7093D454
8	0.45	1.4	19.3	1.25	1.7	25.2	1182	7093D463
16	0.45	1.6	25.9	1.60	1.9	32.9	2084	7093D472

RT = Radial Thickness