

Flame Retardant, Sunlight Resistant

70 °C / 300 V

Single & Multi-Pair, PE-Insulation, Collective Screen, PVC-Sheath

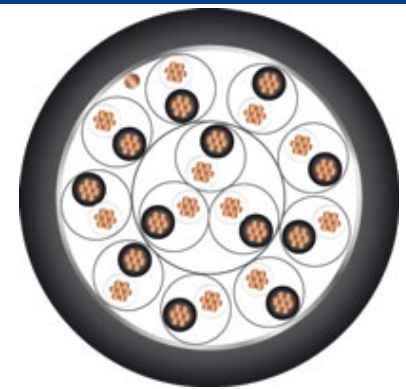
RE-2Y(St)Yv-fi

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.
(Please note the relevant legal / local installation requirements)

Construction

Conductor.....	plain annealed copper wire, stranded, size: 0.5 mm ² , 0.75 mm ² , 1 mm ² , 1.3 mm ² , 1.5 mm ²
Insulation.....	polyethylene PE
Colour code.....	black / white, continuously numbered on white core (1, 2, 3..) for multi-element
Wrapping.....	at least 1 layer of plastic tape
Collective screen.....	24 µm aluminium / PETP tape over tinned copper drain wire, 0.5 mm ²
Outer sheath.....	polyvinyl chloride PVC, black, reinforced
Cable marking.....	LEONI KERPEN ICON INSTRUMENTATION CABLE SIZE 300V RP EN 50288-7 CE PRODUCTION LOT CODE LENGTH MARKING



Technical data

Flame propagation	
- Test on single cable	IEC 60332-1-2
- Test on bunched cables	IEC 60332-3-24 (Cat. C)
Limiting Oxygen Index (LOI)	ASTM D 2863 (min. 30 %)
Flammability temperature (FT)	ISO 4589-3 ann. A (min. +250 °C)
Amount of halogen acid gas	IEC 60754-1 (max. 17 %)
Oil resistance	ICEA S-73-532
Sunlight resistance	UL 1581 section 1200

Temperature range
-30°C up to +70°C (during operation)
-5°C up to +50°C (during installation)
Minimum bending radius
7.5 x cable diameter

Abbreviations

RE-	Instrumentation Cable
2Y	PE insulation
(St)	collective screen
Yv	PVC outer sheath, reinforced
-fi	reduced flame propagation

Electrical Properties at 20 °C

	nom.	mm ²	0.5	0.75	1	1.3	1.5
Conductor cross-section							
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 element:			115	115	115	115	115
2 to 4 elements:			90	90	90	102	102
above 4 elements:			75	75	75	85	85
Inductance	max.	mH/km	1				
Capacitance unbalance	max.	pF/500 m	500				
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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No. of elements	RT of insulation nom. (mm)	RT of outer sheath nom. (mm)	Outer dia. approx. (mm)	Weight approx. (kg/km)	Part No. Colour black
0.5 mm²/7					
1	0.35	1.8	7.2	71	LKX7338E0010000
2	0.35	1.8	9.4	108	LKX7338E0040000
4	0.35	1.8	10.6	140	LKX7338E0070000
5	0.35	1.8	11.4	163	LKX7338E1510000
6	0.35	1.8	12.2	187	LKX7338E0100000
8	0.35	1.8	12.9	213	LKX7338E0130000
10	0.35	1.8	14.3	252	LKX7338E0160000
12	0.35	1.8	14.9	283	LKX7338E0190000
16	0.35	1.8	16.6	353	LKX7338E0220000
20	0.35	1.8	18.1	416	LKX7338E0250000
24	0.35	1.8	19.5	483	LKX7338E0280000
0.75 mm²/7					
1	0.38	1.8	7.7	81	LKX7338E0310000
2	0.38	1.8	10.3	128	LKX7338E0340000
4	0.38	1.8	11.6	169	LKX7338E0370000
5	0.38	1.8	12.5	199	LKX7338E1540000
6	0.38	1.8	13.4	229	LKX7338E0400000
8	0.38	1.8	14.2	265	LKX7338E0430000
10	0.38	1.8	15.9	317	LKX7338E0460000
12	0.38	1.8	16.5	358	LKX7338E0490000
16	0.38	1.8	18.5	450	LKX7338E0520000
20	0.38	1.8	20.2	536	LKX7338E0550000
24	0.38	1.8	21.8	617	LKX7338E0580000
1 mm²/7					
1	0.40	1.8	8.1	90	LKX7338E0610000
2	0.40	1.8	11.0	146	LKX7338E0640000
4	0.40	1.8	12.5	200	LKX7338E0670000
5	0.40	1.8	13.5	236	LKX7338E1570000
6	0.40	1.8	14.6	276	LKX7338E0700000
8	0.40	1.8	15.4	321	LKX7338E0730000
10	0.40	1.8	17.3	386	LKX7338E0760000
12	0.40	1.8	18.0	442	LKX7338E0790000
16	0.40	1.8	20.2	558	LKX7338E0820000
20	0.40	1.8	22.1	666	LKX7338E0850000
24	0.40	1.8	23.9	778	LKX7338E0880000

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No. of elements	RT of insulation nom. (mm)	RT of outer sheath nom. (mm)	Outer dia. approx. (mm)	Weight approx. (kg/km)	Part No. Colour black
1.3 mm²/7					
1	0.45	1.8	8.6	102	LKX7338E0910000
2	0.45	1.8	12.0	172	LKX7338E0940000
4	0.45	1.8	13.6	239	LKX7338E0970000
5	0.45	1.8	14.8	286	LKX7338E1600000
6	0.45	1.8	16.0	332	LKX7338E1000000
8	0.45	1.8	16.9	391	LKX7338E1030000
10	0.45	1.8	19.1	474	LKX7338E1060000
12	0.45	1.8	19.9	541	LKX7338E1090000
16	0.45	1.8	22.4	690	LKX7338E1120000
20	0.45	1.8	24.6	832	LKX7338E1150000
24	0.45	1.8	26.5	968	LKX7338E1180000
1.5 mm²/7					
1	0.45	1.8	8.9	109	LKX7338E1210000
2	0.45	1.8	12.4	188	LKX7338E1240000
4	0.45	1.8	14.1	261	LKX7338E1270000
5	0.45	1.8	15.4	313	LKX7338E1630000
6	0.45	1.8	16.6	364	LKX7338E1300000
8	0.45	1.8	17.6	433	LKX7338E1330000
10	0.45	1.8	19.8	526	LKX7338E1360000
12	0.45	1.8	20.7	605	LKX7338E1390000
16	0.45	1.8	23.3	772	LKX7338E1420000
20	0.45	1.8	25.6	933	LKX7338E1450000
24	0.45	1.8	27.7	1091	LKX7338E1480000

RT = Radial Thickness