

Flame Retardant, Sunlight Resistant

90 °C / 300 V

Multi-Pair, XLPE-Insulation, Individual & Collective Screen, Reinforced PVC-Sheath

ICON BASE PRO 60104 M1 IS/OS

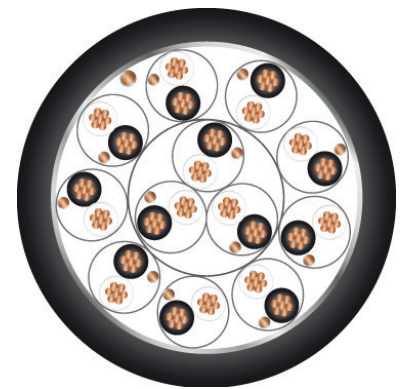
Application

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. (Please note possible additional or special installation requirements of IEC 60079-14).

Recommended for indoor and outdoor installation, on racks, trays, in conduits, in dry and wet locations; not for direct burial. Indoor installation allowed to the local regulations. For the EU member States the below mentioned classification of the construction products regulation (CPR) acc. to EN 50575 has to be considered. (Please note the relevant legal / local installation requirements)

Construction

Conductor.....	plain annealed copper wire, stranded, size: 0.5 mm ² , 0.75 mm ² , 1.0 mm ² , 1.3 mm ² , 1.5 mm ² , 2.5 mm ²
Insulation.....	cross-linked polyethylene XLPE
Colour code.....	black / white, continuously numbered on white core (1, 2, 3..) for multi-element
Individual screen.....	aluminium polyester foil in contact with solid tinned copper drain wire, plastic tape under and above screen
Wrapping.....	at least 1 layer of plastic tape
Collective screen.....	aluminium polyester foil in contact with stranded tinned copper drain wire
Outer sheath.....	polyvinyl chloride PVC, reinforced, black, blue for intrinsically safe systems
Cable marking.....	LEONI KERPEN ICON BASE PRO Type Code Size 300V RP GEN. TO EN 50288-7 Cca DoP CDESK 0000055 Production Lot Code Year Length Marking



Technical data

Flame propagation	
- Test on single cable	IEC 60332-1-2
- Test on bunched cables	IEC 60332-3-24 (Cat. C)
CPR Classification	EN 50575 (Cca (s2, d0, a3))
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

Abbreviations

	ICON BASE PRO
IS/OS	individual screen / overall screen

Electrical Properties at 20 °C

	nom.	mm ²	0.5	0.75	1.0	1.3	1.5	2.5
Conductor cross-section	max.	Ω/km	36.7	25.0	18.5	14.2	12.3	7.6
Conductor resistance	min.	MΩ x km	5000					
Insulation resistance	max.	nF/km	150	150	150	150	150	150
Mutual capacitance	max.	mH/km	1					
Inductance	max.	μH/Ω	25		40		60	
L/R ratio		V	1500					
Test voltage U _{rms} (core : core)		V	1500					
Test voltage U _{rms} (core : screen)		V	300					
Operating voltage		V	300					

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Geometrical data

No. of elements	RT of insulation min. (mm)	RT of outer sheath nom. (mm)	Outer dia. approx. (mm)	Weight approx. (kg/km)	Part No. Colour black
0.5 mm²/7					
2	0.26	1.8	10.1	109	LKX7328P1660000
4	0.26	1.8	11.3	147	LKX7328P1690000
5	0.26	1.8	12.2	173	LKX7328P1720000
6	0.26	1.8	13.1	199	LKX7328P1750000
8	0.26	1.8	13.8	232	LKX7328P1780000
10	0.26	1.8	15.4	279	LKX7328P1810000
12	0.26	1.8	16.1	312	LKX7328P1840000
16	0.26	1.8	18.0	384	LKX7328P1870000
20	0.26	1.8	19.6	461	LKX7328P1900000
24	0.26	1.8	21.1	528	LKX7328P1930000
0.75 mm²/7					
2	0.26	1.8	10.8	127	LKX7328P1960000
4	0.26	1.8	12.2	172	LKX7328P1990000
5	0.26	1.8	13.2	206	LKX7328P2020000
6	0.26	1.8	14.2	238	LKX7328P2050000
8	0.26	1.8	15.0	283	LKX7328P2080000
10	0.26	1.8	16.8	336	LKX7328P2110000
12	0.26	1.8	17.6	382	LKX7328P2140000
16	0.26	1.8	19.7	480	LKX7328P2170000
24	0.26	1.8	23.2	666	LKX7328P2230000
1.0 mm²/7					
2	0.26	1.8	11.5	148	LKX7328P2260000
4	0.26	1.8	13.1	206	LKX7328P2290000
5	0.26	1.8	14.2	245	LKX7328P2320000
6	0.26	1.8	15.3	287	LKX7328P2350000
8	0.26	1.8	16.2	344	LKX7328P2380000
10	0.26	1.8	18.3	407	LKX7328P2410000
12	0.26	1.8	19.0	456	LKX7328P2440000
16	0.26	1.8	21.4	593	LKX7328P2470000
20	0.26	1.8	23.5	711	LKX7328P2500000
24	0.26	1.8	25.3	833	LKX7328P2530000

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1.3 mm²/7					
2	0.35	1.8	12.5	169	LKX7328P2560000
4	0.35	1.8	14.2	244	LKX7328P2590000
5	0.35	1.8	15.5	294	LKX7328P2620000
6	0.35	1.8	16.8	344	LKX7328P2650000
8	0.35	1.8	17.9	410	LKX7328P2680000
10	0.35	1.8	20.0	500	LKX7328P2710000
12	0.35	1.8	20.9	560	LKX7328P2740000
16	0.35	1.8	23.6	716	LKX7328P2770000
20	0.35	1.8	25.9	866	LKX7328P2800000
24	0.35	1.8	28.0	1021	LKX7328P2830000
1.5 mm²/7					
2	0.35	1.8	12.9	188	LKX7328P2860000
4	0.35	1.8	14.7	267	LKX7328P2890000
6	0.35	1.8	17.4	376	LKX7328P2950000
8	0.35	1.8	18.4	446	LKX7328P2980000
10	0.35	1.8	20.8	556	LKX7328P3010000
12	0.35	1.8	21.7	628	LKX7328P3040000
16	0.35	1.8	24.5	783	LKX7328P3070000
20	0.35	1.8	26.9	976	LKX7328P3100000
24	0.35	1.8	29.1	1157	LKX7328P3130000
2.5 mm²/7					
2	0.44	1.8	15.0	253	LKX7328P9660000
4	0.44	1.8	17.3	377	LKX7328P9670000
5	0.44	1.8	18.9	457	LKX7328P9680000
6	0.44	1.8	20.5	531	LKX7328P9690000
8	0.44	1.8	21.8	670	LKX7328P9700000
10	0.44	1.8	24.8	815	LKX7328P9710000
12	0.44	1.8	25.9	929	LKX7328P9720000
16	0.44	1.8	29.3	1206	LKX7328P9730000
20	0.44	1.8	32.3	1459	LKX7328P9740000
24	0.44	1.9	35.3	1752	LKX7328P9750000

RT = Radial Thickness