

ELAND[®]
CABLES

RE-2X(st)H SWAH- BS EN 50288-7 LSZH / LSZH / CAM / SWA / LSZH Cable



Eland Product Group: I

APPLICATION

These cables are designed to connect electrical instrument circuits and provide communication services in and around process plants (e.g. petrochemical industry etc.). Suitable for direct burial applications. For installations where fire, smoke emissions and toxic fumes create a potential risk to life and equipment.

CONSTRUCTION

Conductor

Class 1 solid copper conductor
Class 2 stranded copper conductor
Class 5 flexible copper conductor

Insulation

LSZH (Low Smoke Zero Halogen) according to BS EN 50290

Individual And Collective Screen Or Collective Screen

PET (Polyester Tape)
AL/PET (Aluminium/Polyester Tape)

Inner Sheath

LSZH (Low Smoke Zero Halogen) according to BS EN 50290

Armour

Galvanized steel wires

Outer Sheath

LSZH (Low Smoke Zero Halogen) according to BS EN 50290

CABLE STANDARDS

BS EN 50288-1, BS EN 50288-7, HD 383, BS EN 50290-2,
BS EN/IEC 60332-1, BS EN/IEC 60332-3-24, HD383



The electrical and dimensional properties of this product are measured by the Technical and Quality Assurance department at the Eland Cables laboratory. Cable performance in respect of conductor resistance, construction quality (workmanship), dimensional consistency, and other parameters are verified to published standards and approved product drawings. Conformance to RoHS (Restriction of the use of Hazardous Substances) is determined and confirmed.

CHARACTERISTICS

Voltage Rating

300V

Operating Temperature

+75°C

Core Identification

○ White and ● Black numbered
● Blue and ● Black numbered cores available on request

Outer Sheath Colour

● Blue ● Black

Note

90V and 500V rated cables available on request

DIMENSIONS

Collective Screened

ELAND PART NO.	NO. OF PAIRS/TRIPLE	NOMINAL GROSS SECTIONAL AREA mm ²	NOMINAL OVERALL DIAMETER mm		
			90V*	300V	500V*
IRE2XSTSLC0105	1P	0.5	8.8	9	9.8
IRE2XSTSLC0175	1P	0.75	9.3	9.5	20.3
IRE2XSTSLC0110	1P	1	9.4	9.4	10.2
IRE2XSTSLC0115	1P	1.5	10.6	10.8	11.2
IRE2XSTSLC0125	1P	2.5	-	-	12.7
IRE2XSTSLC1T05	1T	0.5	9	9.2	10.1
IRE2XSTSLC1T75	1T	0.75	9.5	9.8	10.7
IRE2XSTSLC1T10	1T	1	9.7	9.7	10.6
IRE2XSTSLC1T15	1T	1.5	11	11.3	11.7
IRE2XSTSLC1T25	1T	2.5	-	-	13.2
IRE2XSTSLC0205	2P(Q)	0.5	10.8	11.2	12.6
IRE2XSTSLC0275	2P(Q)	0.75	11.7	12.2	13.6
IRE2XSTSLC0210	2P(Q)	1	12	12	13.4
IRE2XSTSLC0215	2P(Q)	1.5	14	14.4	15.1
IRE2XSTSLC0225	2P(Q)	2.5	-	-	17.6
IRE2XSTSLC0505	5P	0.5	12.5	13.1	15
IRE2XSTSLC0575	5P	0.75	13.8	14.4	16.3
IRE2XSTSLC0510	5P	1	14.2	14.2	16.1
IRE2XSTSLC0515	5P	1.5	16.9	17.4	18.4
IRE2XSTSLC0525	5P	2.5	-	-	22.3
IRE2XSTSLC1005	10P	0.5	15.8	16.7	20.1
IRE2XSTSLC1075	10P	0.75	17.7	18.6	22
IRE2XSTSLC1010	10P	1	18.2	18.2	21.7
IRE2XSTSLC1015	10P	1.5	22.9	23.7	25.9
IRE2XSTSLC1025	10P	2.5	-	-	30.9
IRE2XSTSLC1505	15P	0.5	17.5	11.3	11.7
IRE2XSTSLC1575	15P	0.75	20.4	21.5	24.8
IRE2XSTSLC1510	15P	1	21	21	24.3
IRE2XSTSLC1515	15P	1.5	26.6	27.5	29.2
IRE2XSTSLC1525	15P	2.5	-	-	35.9
IRE2XSTSLC2005	20P	0.5	19.8	21.1	24.8
IRE2XSTSLC2075	20P	0.75	22.4	23.7	28.2
IRE2XSTSLC2010	20P	1	23.1	23.1	27.7
IRE2XSTSLC2015	20P	1.5	29.4	30.4	33.2
IRE2XSTSLC2025	20P	2.5	-	-	39.8

* Available on request

P = Pairs

Q = Quad

T = Triple

Individually and Collectively Screened

ELAND PART NO.	NO. OF PAIRS/TRIPLE	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL OVERALL DIAMETER mm		
			90V*	300V	500V*
IRE2XSTSLI0205	2P	0.5	11.4	11.9	13.3
IRE2XSTSLI0275	2P	0.75	12.4	12.9	14.3
IRE2XSTSLI0210	2P	1	12.7	12.7	14.1
IRE2XSTSLI0215	2P	1.5	14.8	15.2	15.9
IRE2XSTSLI0225	2P	2.5	-	-	18.6
IRE2XSTSLI0305	3P	0.5	11.8	12.3	13.9
IRE2XSTSLI0375	3P	0.75	12.9	13.4	15
IRE2XSTSLI0310	3P	1	13.2	13.2	14.8
IRE2XSTSLI0315	3P	1.5	15.5	15.9	16.7
IRE2XSTSLI0325	3P	2.5	-	-	20.2
IRE2XSTSLI0505	5P	0.5	13.3	14	16
IRE2XSTSLI0575	5P	0.75	14.7	15.4	17.4
IRE2XSTSLI0510	5P	1	15.1	15.1	17.1
IRE2XSTSLI0515	5P	1.5	18	18.5	20.2
IRE2XSTSLI0525	5P	2.5	-	-	23.7
IRE2XSTSLI1005	10P	0.5	17	18	21.5
IRE2XSTSLI1075	10P	0.75	19.6	20.6	23.6
IRE2XSTSLI1010	10P	1	20.2	22	23.2
IRE2XSTSLI1015	10P	1.5	24.5	26.1	27.6
IRE2XSTSLI1025	10P	2.5	-	-	33.7
IRE2XSTSLI1505	15P	0.5	18.9	20.7	24.2
IRE2XSTSLI1575	15P	0.75	22	23.1	27.4
IRE2XSTSLI1510	15P	1	22.6	22.6	26.9
IRE2XSTSLI1515	15P	1.5	28.5	29.5	31.2
IRE2XSTSLI1525	15P	2.5	-	-	38.2
IRE2XSTSLI2005	20P	0.5	21.5	22.9	27.6
IRE2XSTSLI2075	20P	0.75	24.2	26.3	30.3
IRE2XSTSLI2010	20P	1	25.8	25.8	29.8
IRE2XSTSLI2015	20P	1.5	31.5	33.5	35.5
IRE2XSTSLI2025	20P	2.5	-	-	42.5
IRE2XSTSLI3005	30P	0.5	24.4	26.8	31.6
IRE2XSTSLI3075	30P	0.75	28.5	30.1	35.7
IRE2XSTSLI3010	30P	1	29.4	29.4	35
IRE2XSTSLI3015	30P	1.5	37.1	38.4	40.8
IRE2XSTSLI3025	30P	2.5	-	-	49.2

* Available on request

P = Pairs

CONDUCTORS

NOMINAL CROSS SECTIONAL AREA mm ²	MAXIMUM DC RESISTANCE OF CONDUCTOR AT 20°C ohms/km		
	Class 1	Class 2	Class 5
0.5	37.2	36.36	39.39
0.75	24.8	24.8	26.8
1	18.6	18.3	19.7
1.5	12.3	12.42	13.43
2.5	7.48	7.56	8.05

ELECTRICAL CHARACTERISTICS

Individually and Collectively Screened Cables

NOMINAL CROSS SECTIONAL AREA mm ²	MUTUAL CAPACITANCE pF/m	MINIMUM INSULATION RESISTANCE AT 20°C mohms/km	MAXIMUM L/R RATIO μH/ohms
0.5	250	>10	25
0.75	250	>10	25
1	250	>10	25
1.5	250	>10	40
2.5	250	>10	65