

RE-2X(st)H - BS EN 50288-7 LSZH / CAM / 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.). Not 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 according to HD383
Class 2 stranded copper conductor according to HD383
Class 5 flexible copper conductor according to HD383

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)

Sheath

LSZH (Low Smoke Zero Halogen) according to BS EN 50290
or available in PVC (Polyvinyl Chloride)

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



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 available on request

Sheath Colour

● Blue ● Black

Note

90V and 500V rated cables available on request

DIMENSIONS

Collectively Screened

ELAND PART NO.	NO. OF PAIRS/TRIPLE	NOMINAL GROSS SECTIONAL AREA mm ²	NOMINAL OVERALL DIAMETER mm		
			90V*	300V	500V*
IRE2XSTYLC0105	1P	0.5	4.4	4.6	5.4
IRE2XSTYLC0175	1P	0.75	4.9	4.6	5.9
IRE2XSTYLC0110	1P	1	5	5	5.8
IRE2XSTYLC0115	1P	1.5	6.2	6.4	6.8
IRE2XSTYLC0125	1P	2.5	-	-	8.1
IRE2XSTYLC01T05	1T	0.5	4.6	4.8	5.7
IRE2XSTYLC01T75	1T	0.75	5.1	5.4	6.3
IRE2XSTYLC01T10	1T	1	5.3	5.3	6.1
IRE2XSTYLC01T15	1T	1.5	6.5	6.7	7.2
IRE2XSTYLC01T25	1T	2.5	-	-	8.7
IRE2XSTYLC0205	2P(Q)	0.5	6.3	6.7	8.1
IRE2XSTYLC0275	2P(Q)	0.75	7.2	7.6	9
IRE2XSTYLC0210	2P(Q)	1	7.5	7.5	8.8
IRE2XSTYLC0215	2P(Q)	1.5	9.4	9.7	10.4
IRE2XSTYLC0225	2P(Q)	2.5	-	-	12.8
IRE2XSTYLC0505	5P	0.5	8	8.6	10.3
IRE2XSTYLC0575	5P	0.75	9.2	9.8	11.6
IRE2XSTYLC0510	5P	1	6.5	9.5	11.3
IRE2XSTYLC0515	5P	1.5	12.1	12.6	13.5
IRE2XSTYLC0525	5P	2.5	-	-	16.7
IRE2XSTYLC1005	10P	0.5	11.1	11.9	14.6
IRE2XSTYLC1075	10P	0.75	12.9	13.7	16.4
IRE2XSTYLC1010	10P	1	13.4	13.4	16
IRE2XSTYLC1015	10P	1.5	17.2	17.9	19.3
IRE2XSTYLC1025	10P	2.5	-	-	24
IRE2XSTYLC1505	15P	0.5	12.7	13.8	16.9
IRE2XSTYLC1575	15P	0.75	14.8	15.9	19
IRE2XSTYLC1510	15P	1	11.5	15.5	18.6
IRE2XSTYLC1515	15P	1.5	19.9	20.8	22.4
IRE2XSTYLC1525	15P	2.5	-	-	27.9
IRE2XSTYLC2005	20P	0.5	14.3	15.5	19
IRE2XSTYLC2075	20P	0.75	16.7	17.9	21.5
IRE2XSTYLC2010	20P	1	17.4	17.4	21
IRE2XSTYLC2015	20P	1.5	22.6	23.5	25.3
IRE2XSTYLC2025	20P	2.5	-	-	31.6

* Available on request

P = Pairs

Q = Quads

T = Triples

Individually and Collectively Screened

ELAND PART NO.	NO. OF PAIRS/TRIPLE	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL OVERALL DIAMETER mm		
			90V*	300V	500V*
IRE2XSTYLI0205	2P	0.5	6.9	7.3	8.7
IRE2XSTYLI0275	2P	0.75	7.8	8.3	9.7
IRE2XSTYLI0210	2P	1	8.1	8.1	9.5
IRE2XSTYLI0215	2P	1.5	10.1	10.5	11.2
IRE2XSTYLI0225	2P	2.5	-	-	13.7
IRE2XSTYLI0305	3P	0.5	7.3	7.8	9.3
IRE2XSTYLI0375	3P	0.75	8.3	8.8	10.3
IRE2XSTYLI0310	3P	1	8.6	8.6	10.1
IRE2XSTYLI0315	3P	1.5	10.8	11.2	12
IRE2XSTYLI0325	3P	2.5	-	-	14.6
IRE2XSTYLI0505	5P	0.5	8.7	9.4	11.3
IRE2XSTYLI0575	5P	0.75	10	10.7	12.6
IRE2XSTYLI0510	5P	1	10.4	10.4	12.3
IRE2XSTYLI0515	5P	1.5	13.1	13.7	14.6
IRE2XSTYLI0525	5P	2.5	-	-	18
IRE2XSTYLI1005	10P	0.5	12.2	13.1	15.9
IRE2XSTYLI1075	10P	0.75	14.1	15	17.8
IRE2XSTYLI1010	10P	1	14.7	14.7	17.5
IRE2XSTYLI1015	10P	1.5	18.7	19.5	20.9
IRE2XSTYLI1025	10P	2.5	-	-	25.9
IRE2XSTYLI1505	15P	0.5	14.1	15.1	18.4
IRE2XSTYLI1575	15P	0.75	16.3	17.4	20.7
IRE2XSTYLI1510	15P	1	17	17	20.2
IRE2XSTYLI1515	15P	1.5	21.7	22.6	24.3
IRE2XSTYLI1525	15P	2.5	-	-	30.1
IRE2XSTYLI2005	20P	0.5	15.8	17.1	20.8
IRE2XSTYLI2075	20P	0.75	18.4	19.7	23.4
IRE2XSTYLI2010	20P	1	19.1	19.1	22.9
IRE2XSTYLI2015	20P	1.5	24.6	25.6	27.5
IRE2XSTYLI2025	20P	2.5	-	-	34.2
IRE2XSTYLI3005	30P	0.5	18.6	20.1	24.6
IRE2XSTYLI3075	30P	0.75	21.7	23.2	27.7
IRE2XSTYLI3010	30P	1	22.6	22.6	27.1
IRE2XSTYLI3015	30P	1.5	29.1	30.3	32.6
IRE2XSTYLI3025	30P	2.5	-	-	40.6

* 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 Gohms/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