

RE-2X(st)Y - BS EN 50288-7 XLPE / CAM / PVC or 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.

CONSTRUCTION

Conductor

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

Insulation

XLPE (Cross-Linked Polyethylene) according to BS EN 50290

Individual And Collective Screen Or Collective Screen

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

Sheath

PVC (Polyvinyl Chloride) or 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

+90°C

Core Identification

- White and ● Black numbered
- Blue and ● Black numbered 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*
IRE2XSTYXC0105	1P	0.5	4.4	4.6	5.4
IRE2XSTYXC0175	1P	0.75	4.9	4.6	5.9
IRE2XSTYXC0110	1P	1	5	5	5.8
IRE2XSTYXC0115	1P	1.5	6.2	6.4	6.8
IRE2XSTYXC0125	1P	2.5	-	-	8.1
IRE2XSTYXC01T05	1T	0.5	4.6	4.8	5.7
IRE2XSTYXC01T75	1T	0.75	5.1	5.4	6.3
IRE2XSTYXC01T10	1T	1	5.3	5.3	6.1
IRE2XSTYXC01T15	1T	1.5	6.5	6.7	7.2
IRE2XSTYXC01T25	1T	2.5	-	-	8.7
IRE2XSTYXC0205	2P(Q)	0.5	6.3	6.7	8.1
IRE2XSTYXC0275	2P(Q)	0.75	7.2	7.6	9
IRE2XSTYXC0210	2P(Q)	1	7.5	7.5	8.8
IRE2XSTYXC0215	2P(Q)	1.5	9.4	9.7	10.4
IRE2XSTYXC0225	2P(Q)	2.5	-	-	12.8
IRE2XSTYXC0505	5P	0.5	8	8.6	10.3
IRE2XSTYXC0575	5P	0.75	9.2	9.8	11.6
IRE2XSTYXC0510	5P	1	6.5	9.5	11.3
IRE2XSTYXC0515	5P	1.5	12.1	12.6	13.5
IRE2XSTYXC0525	5P	2.5	-	-	16.7
IRE2XSTYXC1005	10P	0.5	11.1	11.9	14.6
IRE2XSTYXC1075	10P	0.75	12.9	13.7	16.4
IRE2XSTYXC1010	10P	1	13.4	13.4	16
IRE2XSTYXC1015	10P	1.5	17.2	17.9	19.3
IRE2XSTYXC1025	10P	2.5	-	-	24
IRE2XSTYXC1505	15P	0.5	12.7	13.8	16.9
IRE2XSTYXC1575	15P	0.75	14.8	15.9	19
IRE2XSTYXC1510	15P	1	11.5	15.5	18.6
IRE2XSTYXC1515	15P	1.5	19.9	20.8	22.4
IRE2XSTYXC1525	15P	2.5	-	-	27.9
IRE2XSTYXC2005	20P	0.5	14.3	15.5	19
IRE2XSTYXC2075	20P	0.75	16.7	17.9	21.5
IRE2XSTYXC2010	20P	1	17.4	17.4	21
IRE2XSTYXC2015	20P	1.5	22.6	23.5	25.3
IRE2XSTYXC2025	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*
IRE2XSTYXI0205	2P	0.5	6.9	7.3	8.7
IRE2XSTYXI0275	2P	0.75	7.8	8.3	9.7
IRE2XSTYXI0210	2P	1	8.1	8.1	9.5
IRE2XSTYXI0215	2P	1.5	10.1	10.5	11.2
IRE2XSTYXI0225	2P	2.5	-	-	13.7
IRE2XSTYXI0305	3P	0.5	7.3	7.8	9.3
IRE2XSTYXI0375	3P	0.75	8.3	8.8	10.3
IRE2XSTYXI0310	3P	1	8.6	8.6	10.1
IRE2XSTYXI0315	3P	1.5	10.8	11.2	12
IRE2XSTYXI0325	3P	2.5	-	-	14.6
IRE2XSTYXI0505	5P	0.5	8.7	9.4	11.3
IRE2XSTYXI0575	5P	0.75	10	10.7	12.6
IRE2XSTYXI0510	5P	1	10.4	10.4	12.3
IRE2XSTYXI0515	5P	1.5	13.1	13.7	14.6
IRE2XSTYXI0525	5P	2.5	-	-	18
IRE2XSTYXI1005	10P	0.5	12.2	13.1	15.9
IRE2XSTYXI1075	10P	0.75	14.1	15	17.8
IRE2XSTYXI1010	10P	1	14.7	14.7	17.5
IRE2XSTYXI1015	10P	1.5	18.7	19.5	20.9
IRE2XSTYXI1025	10P	2.5	-	-	25.9
IRE2XSTYXI1505	15P	0.5	14.1	15.1	18.4
IRE2XSTYXI1575	15P	0.75	16.3	17.4	20.7
IRE2XSTYXI1510	15P	1	17	17	20.2
IRE2XSTYXI1515	15P	1.5	21.7	25.6	27.5
IRE2XSTYXI1525	15P	2.5	-	-	30.1
IRE2XSTYXI2005	20P	0.5	15.8	17.1	20.8
IRE2XSTYXI2075	20P	0.75	18.4	19.7	23.4
IRE2XSTYXI2010	20P	1	19.1	19.1	22.9
IRE2XSTYXI2015	20P	1.5	24.6	25.6	27.5
IRE2XSTYXI2025	20P	2.5	-	-	34.2
IRE2XSTYXI3005	30P	0.5	18.6	20.1	24.6
IRE2XSTYXI3075	30P	0.75	21.7	23.2	27.7
IRE2XSTYXI3010	30P	1	22.6	22.6	27.1
IRE2XSTYXI3015	30P	1.5	29.1	30.3	32.6
IRE2XSTYXI3025	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	150	>1	25
0.75	150	>1	25
1	150	>1	25
1.5	150	>1	40
2.5	150	>1	65