

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

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)

Inner Sheath

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

Armour

Galvanized steel wires

Outer Sheath

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, 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 available on request

Outer 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*
IRE2XSTSXC0105	1P	0.5	8.8	9	9.8
IRE2XSTSXC0175	1P	0.75	9.3	9.5	20.3
IRE2XSTSXC0110	1P	1	9.4	9.4	10.2
IRE2XSTSXC0115	1P	1.5	10.6	10.8	11.2
IRE2XSTSXC0125	1P	2.5	-	-	12.7
IRE2XSTSXC1T05	1T	0.5	9	9.2	10.1
IRE2XSTSXC1T75	1T	0.75	9.5	9.8	10.7
IRE2XSTSXC1T10	1T	1	9.7	9.7	10.6
IRE2XSTSXC1T15	1T	1.5	11	11.3	11.7
IRE2XSTSXC1T25	1T	2.5	-	-	13.2
IRE2XSTSXC0205	2P(Q)	0.5	10.8	11.2	12.6
IRE2XSTSXC0275	2P(Q)	0.75	11.7	12.2	13.6
IRE2XSTSXC0210	2P(Q)	1	12	12	13.4
IRE2XSTSXC0215	2P(Q)	1.5	14	14.4	15.1
IRE2XSTSXC0225	2P(Q)	2.5	-	-	17.6
IRE2XSTSXC0505	5P	0.5	12.5	13.1	15
IRE2XSTSXC0575	5P	0.75	13.8	14.4	16.3
IRE2XSTSXC0510	5P	1	14.2	14.2	16.1
IRE2XSTSXC0515	5P	1.5	16.9	17.4	18.4
IRE2XSTSXC0525	5P	2.5	-	-	22.3
IRE2XSTSXC1005	10P	0.5	15.8	16.7	20.1
IRE2XSTSXC1075	10P	0.75	17.7	18.6	22
IRE2XSTSXC1010	10P	1	18.2	18.2	21.7
IRE2XSTSXC1015	10P	1.5	22.9	23.7	25.9
IRE2XSTSXC1025	10P	2.5	-	-	30.9
IRE2XSTSXC1505	15P	0.5	17.5	18.6	22.5
IRE2XSTSXC1575	15P	0.75	20.4	21.5	24.8
IRE2XSTSXC1510	15P	1	21	21	24.3
IRE2XSTSXC1515	15P	1.5	26.6	27.5	29.2
IRE2XSTSXC1525	15P	2.5	-	-	35.9
IRE2XSTSXC2005	20P	0.5	19.8	21.1	24.8
IRE2XSTSXC2075	20P	0.75	22.4	23.7	28.2
IRE2XSTSXC2010	20P	1	23.1	23.1	27.7
IRE2XSTSXC2015	20P	1.5	29.4	30.4	33.2
IRE2XSTSXC2025	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*
IRE2XSTSXI0205	2P	0.5	11.4	11.9	13.3
IRE2XSTSXI0275	2P	0.75	12.4	12.9	14.3
IRE2XSTSXI0210	2P	1	12.7	12.7	14.1
IRE2XSTSXI0215	2P	1.5	14.8	15.2	15.9
IRE2XSTSXI0225	2P	2.5	-	-	18.6
IRE2XSTSXI0305	3P	0.5	11.8	12.3	13.9
IRE2XSTSXI0375	3P	0.75	12.9	13.4	15
IRE2XSTSXI0310	3P	1	13.2	13.2	14.8
IRE2XSTSXI0315	3P	1.5	15.5	15.9	16.7
IRE2XSTSXI0325	3P	2.5	-	-	20.2
IRE2XSTSXI0505	5P	0.5	13.3	14	16
IRE2XSTSXI0575	5P	0.75	14.7	15.4	17.4
IRE2XSTSXI0510	5P	1	15.1	15.1	17.1
IRE2XSTSXI0515	5P	1.5	18	18.5	20.2
IRE2XSTSXI0525	5P	2.5	-	-	23.7
IRE2XSTSXI1005	10P	0.5	17	18	21.5
IRE2XSTSXI1075	10P	0.75	19.6	20.6	23.6
IRE2XSTSXI1010	10P	1	20.2	22	23.2
IRE2XSTSXI1015	10P	1.5	24.5	26.1	27.6
IRE2XSTSXI1025	10P	2.5	-	-	33.7
IRE2XSTSXI1505	15P	0.5	18.9	20.7	24.2
IRE2XSTSXI1575	15P	0.75	22	23.1	27.4
IRE2XSTSXI1510	15P	1	22.6	22.6	26.9
IRE2XSTSXI1515	15P	1.5	28.5	29.5	31.2
IRE2XSTSXI1525	15P	2.5	-	-	38.2
IRE2XSTSXI2005	20P	0.5	21.5	22.9	27.6
IRE2XSTSXI2075	20P	0.75	24.2	26.3	30.3
IRE2XSTSXI2010	20P	1	25.8	25.8	29.8
IRE2XSTSXI2015	20P	1.5	31.5	33.5	35.5
IRE2XSTSXI2025	20P	2.5	-	-	42.5
IRE2XSTSXI3005	30P	0.5	24.4	26.8	31.6
IRE2XSTSXI3075	30P	0.75	28.5	30.1	35.7
IRE2XSTSXI3010	30P	1	29.4	29.4	35
IRE2XSTSXI3015	30P	1.5	37.1	38.4	40.8
IRE2XSTSXI3025	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 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