

RE-2Y(st)Y SWAY - BS EN 50288-7 PE / PVC / CAM / PVC Instrumentation 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 according to HD383

Class 2 stranded copper conductor according to HD383

Class 5 flexible copper conductor according to HD383

Insulation

PE (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



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

Collectively Screened

ELAND PART NO.	NO. OF PAIRS/TRIPLE	NOMINAL GROSS SECTIONAL AREA mm ²	NOMINAL OVERALL DIAMETER mm		
			90V*	300V	500V*
IRE2XSTSPC0205S	1P	0.5	8.8	9	9.8
IRE2XSTSPC0275S	1P	0.75	9.3	9.5	20.3
IRE2XSTSPC0210S	1P	1	9.4	9.4	10.2
IRE2XSTSPC0215S	1P	1.5	10.6	10.8	11.2
IRE2XSTSPC0225S	1P	2.5	-	-	12.7
IRE2XSTSPC0305S	1T	0.5	9	9.2	10.1
IRE2XSTSPC0375S	1T	0.75	9.5	9.8	10.7
IRE2XSTSPC0310S	1T	1	9.7	9.7	10.6
IRE2XSTSPC0315S	1T	1.5	11	11.3	11.7
IRE2XSTSPC0325S	1T	2.5	-	-	13.2
IRE2XSTSPC0505S	2P (Q)	0.5	10.8	11.2	12.6
IRE2XSTSPC0575S	2P (Q)	0.75	11.7	12.2	13.6
IRE2XSTSPC0510S	2P (Q)	1	12	12	13.4
IRE2XSTSPC0515S	2P (Q)	1.5	14	14.4	15.1
IRE2XSTSPC0525S	2P (Q)	2.5	-	-	17.6
IRE2XSTSPC1005S	5P	0.5	12.5	13.1	15
IRE2XSTSPC1075S	5P	0.75	13.8	14.4	16.3
IRE2XSTSPC1010S	5P	1	14.2	14.2	16.1
IRE2XSTSPC1015S	5P	1.5	16.9	17.4	18.4
IRE2XSTSPC1025S	5P	2.5	-	-	22.3
IRE2XSTSPC1505S	10P	0.5	15.8	16.7	20.1
IRE2XSTSPC1575S	10P	0.75	17.7	18.6	22
IRE2XSTSPC1510S	10P	1	18.2	18.2	21.7
IRE2XSTSPC1515S	10P	1.5	22.9	23.7	25.9
IRE2XSTSPC1525S	10P	2.5	-	-	30.9
IRE2XSTSPC2005S	15P	0.5	17.5	18.6	22.5
IRE2XSTSPC3075S	15P	0.75	20.4	21.5	24.8
IRE2XSTSPC2010S	15P	1	21	21	24.3
IRE2XSTSPC2015S	15P	1.5	26.6	27.5	29.2
IRE2XSTSPC2025S	15P	2.5	-	-	35.9
IRE2XSTSPC3005S	20P	0.5	19.8	21.1	24.8
IRE2XSTSPC2075S	20P	0.75	22.4	23.7	28.2
IRE2XSTSPC3010S	20P	1	23.1	23.1	27.7
IRE2XSTSPC3015S	20P	1.5	29.4	30.4	33.2
IRE2XSTSPC3025S	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*
IRE2XSTSPI0205S	2P	0.5	11.4	11.9	13.3
IRE2XSTSPI0275S	2P	0.75	12.4	12.9	14.3
IRE2XSTSPI0210S	2P	1	12.7	12.7	14.1
IRE2XSTSPI0215S	2P	1.5	14.8	15.2	15.9
IRE2XSTSPI0225S	2P	2.5	-	-	18.6
IRE2XSTSPI0305S	3P	0.5	11.8	12.3	13.9
IRE2XSTSPI0375S	3P	0.75	12.9	13.4	15
IRE2XSTSPI0310S	3P	1	13.2	13.2	14.8
IRE2XSTSPI0315S	3P	1.5	15.5	15.9	16.7
IRE2XSTSPI0325S	3P	2.5	-	-	20.2
IRE2XSTSPI0505S	5P	0.5	13.3	14	16
IRE2XSTSPI0575S	5P	0.75	14.7	15.4	17.4
IRE2XSTSPI0510S	5P	1	15.1	15.1	17.1
IRE2XSTSPI0515S	5P	1.5	18	18.5	20.2
IRE2XSTSPI0525S	5P	2.5	-	-	23.7
IRE2XSTSPI1005S	10P	0.5	17	18	21.5
IRE2XSTSPI1075S	10P	0.75	19.6	20.6	23.6
IRE2XSTSPI1010S	10P	1	20.2	22	23.2
IRE2XSTSPI1015S	10P	1.5	24.5	26.1	27.6
IRE2XSTSPI1025S	10P	2.5	-	-	33.7
IRE2XSTSPI1505S	15P	0.5	18.9	20.7	24.2
IRE2XSTSPI1575S	15P	0.75	22	23.1	27.4
IRE2XSTSPI1510S	15P	1	22.6	22.6	26.9
IRE2XSTSPI1515S	15P	1.5	28.5	29.5	31.2
IRE2XSTSPI1525S	15P	2.5	-	-	38.2
IRE2XSTSPI2005S	20P	0.5	21.5	22.9	27.6
IRE2XSTSPI2075S	20P	0.75	24.2	26.3	30.3
IRE2XSTSPI2010S	20P	1	25.8	25.8	29.8
IRE2XSTSPI2015S	20P	1.5	31.5	33.5	35.5
IRE2XSTSPI2025S	20P	2.5	-	-	42.5
IRE2XSTSPI3005S	30P	0.5	24.4	26.8	31.6
IRE2XSTSPI3075S	30P	0.75	28.5	30.1	35.7
IRE2XSTSPI3010S	30P	1	29.4	29.4	35
IRE2XSTSPI3015S	30P	1.5	37.1	38.4	40.8
IRE2XSTSPI3025S	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	150	>1	25
0.75	150	>1	25
1	150	>1	25
1.5	150	>1	40
2.5	150	>1	65