

RE-2Y(st)Y - BS EN 50288-7 PE / CAM / PVC or LSZH 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.). Not 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)

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



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 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*
IRE2XSTYPC0105	1P	0.5	4.4	4.6	5.4
IRE2XSTYPC0175	1P	0.75	4.9	4.6	5.9
IRE2XSTYPC0110	1P	1	5	5	5.8
IRE2XSTYPC0115	1P	1.5	6.2	6.4	6.8
IRE2XSTYPC0125	1P	2.5	-	-	8.1
IRE2XSTYPC01T05	1T	0.5	4.6	4.8	5.7
IRE2XSTYPC01T75	1T	0.75	5.1	5.4	6.3
IRE2XSTYPC01T10	1T	1	5.3	5.3	6.1
IRE2XSTYPC01T15	1T	1.5	6.5	6.7	7.2
IRE2XSTYPC01T25	1T	2.5	-	-	8.7
IRE2XSTYPC0205	2P(Q)	0.5	6.3	6.7	8.1
IRE2XSTYPC0275	2P(Q)	0.75	7.2	7.6	9
IRE2XSTYPC0210	2P(Q)	1	7.5	7.5	8.8
IRE2XSTYPC0215	2P(Q)	1.5	9.4	9.7	10.4
IRE2XSTYPC0225	2P(Q)	2.5	-	-	12.8
IRE2XSTYPC0505	5P	0.5	8	8.6	10.3
IRE2XSTYPC0575	5P	0.75	9.2	9.8	11.6
IRE2XSTYPC0510	5P	1	6.5	9.5	11.3
IRE2XSTYPC0515	5P	1.5	12.1	12.6	13.5
IRE2XSTYPC0525	5P	2.5	-	-	16.7
IRE2XSTYPC1005	10P	0.5	11.1	11.9	14.6
IRE2XSTYPC1075	10P	0.75	12.9	13.7	16.4
IRE2XSTYPC1010	10P	1	13.4	13.4	16
IRE2XSTYPC1015	10P	1.5	17.2	17.9	19.3
IRE2XSTYPC1025	10P	2.5	-	-	24
IRE2XSTYPC1505	15P	0.5	12.7	13.8	16.9
IRE2XSTYPC1575	15P	0.75	14.8	15.9	19
IRE2XSTYPC1510	15P	1	11.5	15.5	18.6
IRE2XSTYPC1515	15P	1.5	19.9	20.8	22.4
IRE2XSTYPC1525	15P	2.5	-	-	27.9
IRE2XSTYPC2005	20P	0.5	14.3	15.5	19
IRE2XSTYPC2075	20P	0.75	16.7	17.9	21.5
IRE2XSTYPC2010	20P	1	17.4	17.4	21
IRE2XSTYPC2015	20P	1.5	22.6	23.5	25.3
IRE2XSTYPC2025	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*
IRE2XSTYPI0205	2P	0.5	6.9	7.3	8.7
IRE2XSTYPI0275	2P	0.75	7.8	8.3	9.7
IRE2XSTYPI0210	2P	1	8.1	8.1	9.5
IRE2XSTYPI0215	2P	1.5	10.1	10.5	11.2
IRE2XSTYPI0225	2P	2.5	-	-	13.7
IRE2XSTYPI0305	3P	0.5	7.3	7.8	9.3
IRE2XSTYPI0375	3P	0.75	8.3	8.8	10.3
IRE2XSTYPI0310	3P	1	8.6	8.6	10.1
IRE2XSTYPI0315	3P	1.5	10.8	11.2	12
IRE2XSTYPI0325	3P	2.5	-	-	14.6
IRE2XSTYPI0505	5P	0.5	8.7	9.4	11.3
IRE2XSTYPI0574	5P	0.75	10	10.7	12.6
IRE2XSTYPI0510	5P	1	10.4	10.4	12.3
IRE2XSTYPI0515	5P	1.5	13.1	13.7	14.6
IRE2XSTYPI0525	5P	2.5	-	-	18
IRE2XSTYPI1005	10P	0.5	12.2	13.1	15.9
IRE2XSTYPI1075	10P	0.75	14.1	15	17.8
IRE2XSTYPI1010	10P	1	14.7	14.7	17.5
IRE2XSTYPI1015	10P	1.5	18.7	19.5	20.9
IRE2XSTYPI1025	10P	2.5	-	-	25.9
IRE2XSTYPI1505	15P	0.5	14.1	15.1	18.4
IRE2XSTYPI1575	15P	0.75	16.3	17.4	20.7
IRE2XSTYPI1510	15P	1	17	17	20.2
IRE2XSTYPI1515	15P	1.5	21.7	22.6	24.3
IRE2XSTYPI1525	15P	2.5	-	-	30.1
IRE2XSTYPI2005	20P	0.5	15.8	17.1	20.8
IRE2XSTYPI2075	20P	0.75	18.4	19.7	23.4
IRE2XSTYPI2010	20P	1	19.1	19.1	22.9
IRE2XSTYPI2015	20P	1.5	24.6	25.6	27.5
IRE2XSTYPI2025	20P	2.5	-	-	34.2
IRE2XSTYPI3005	30P	0.5	18.6	20.1	24.6
IRE2XSTYPI3075	30P	0.75	21.7	23.2	27.7
IRE2XSTYPI3010	30P	1	22.6	22.6	27.1
IRE2XSTYPI3015	30P	1.5	29.1	30.3	32.6
IRE2XSTYPI3025	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