

RE-Y(st)Y - BS EN 50288-7 PVC / CAM / 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.). Not suitable for direct burial applications.

CONSTRUCTION

Conductor

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

Insulation

PVC (Polyvinyl Chloride)

Individual And Collective Screen Or Collective Screen

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

Sheath

PVC (Polyvinyl Chloride)

CABLE STANDARDS

BSEN 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

+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*
IRE2XSTYVC0105	1P	0.5	4.4	4.6	5.4
IRE2XSTYVC0175	1P	0.75	4.9	4.6	5.9
IRE2XSTYVC0110	1P	1	5	5	5.8
IRE2XSTYVC0115	1P	1.5	6.2	6.4	6.8
IRE2XSTYVC0125	1P	2.5	-	-	8.1
IRE2XSTYVC01T05	1T	0.5	4.6	4.8	5.7
IRE2XSTYVC01T75	1T	0.75	5.1	5.4	6.3
IRE2XSTYVC01T10	1T	1	5.3	5.3	6.1
IRE2XSTYVC01T15	1T	1.5	6.5	6.7	7.2
IRE2XSTYVC01T25	1T	2.5	-	-	8.7
IRE2XSTYVC0205	2P(Q)	0.5	6.3	6.7	8.1
IRE2XSTYVC0275	2P(Q)	0.75	7.2	7.6	9
IRE2XSTYVC0210	2P(Q)	1	7.5	7.5	8.8
IRE2XSTYVC0215	2P(Q)	1.5	9.4	9.7	10.4
IRE2XSTYVC0225	2P(Q)	2.5	-	-	12.8
IRE2XSTYVC0505	5P	0.5	8	8.6	10.3
IRE2XSTYVC0575	5P	0.75	9.2	9.8	11.6
IRE2XSTYVC0510	5P	1	6.5	9.5	11.3
IRE2XSTYVC0515	5P	1.5	12.1	12.6	13.5
IRE2XSTYVC0525	5P	2.5	-	-	16.7
IRE2XSTYVC1005	10P	0.5	11.1	11.9	14.6
IRE2XSTYVC1075	10P	0.75	12.9	13.7	16.4
IRE2XSTYVC1010	10P	1	13.4	13.4	16
IRE2XSTYVC1015	10P	1.5	17.2	17.9	19.3
IRE2XSTYVC1025	10P	2.5	-	-	24
IRE2XSTYVC1505	15P	0.5	12.7	13.8	16.9
IRE2XSTYVC1575	15P	0.75	14.8	15.9	19
IRE2XSTYVC1510	15P	1	11.5	15.5	18.6
IRE2XSTYVC1515	15P	1.5	19.9	20.8	22.4
IRE2XSTYVC1525	15P	2.5	-	-	27.9
IRE2XSTYVC2005	20P	0.5	14.3	15.5	19
IRE2XSTYVC2075	20P	0.75	16.7	17.9	21.5
IRE2XSTYVC2010	20P	1	17.4	17.4	21
IRE2XSTYVC2015	20P	1.5	22.6	23.5	25.3
IRE2XSTYVC2025	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*
IRE2XSTYVI0205	2P	0.5	6.9	7.3	8.7
IRE2XSTYVI0275	2P	0.75	7.8	8.3	9.7
IRE2XSTYVI0210	2P	1	8.1	8.1	9.5
IRE2XSTYVI0215	2P	1.5	10.1	10.5	11.2
IRE2XSTYVI0225	2P	2.5	-	-	13.7
IRE2XSTYVI0305	3P	0.5	7.3	7.8	9.3
IRE2XSTYVI0375	3P	0.75	8.3	8.8	10.3
IRE2XSTYVI0310	3P	1	8.6	8.6	10.1
IRE2XSTYVI0315	3P	1.5	10.8	11.2	12
IRE2XSTYVI0325	3P	2.5	-	-	14.6
IRE2XSTYVI0505	5P	0.5	8.7	9.4	11.3
IRE2XSTYVI0575	5P	0.75	10	10.7	12.6
IRE2XSTYVI0510	5P	1	10.4	10.4	12.3
IRE2XSTYVI0515	5P	1.5	13.1	13.7	14.6
IRE2XSTYVI0525	5P	2.5	-	-	18
IRE2XSTYVI1005	10P	0.5	12.2	13.1	15.9
IRE2XSTYVI1075	10P	0.75	14.1	15	17.8
IRE2XSTYVI1010	10P	1	14.7	14.7	17.5
IRE2XSTYVI1015	10P	1.5	18.7	19.5	20.9
IRE2XSTYVI1025	10P	2.5	-	-	25.9
IRE2XSTYVI1505	15P	0.5	14.1	15.1	18.4
IRE2XSTYVI1575	15P	0.75	16.3	17.4	20.7
IRE2XSTYVI1510	15P	1	17	17	20.2
IRE2XSTYVI1515	15P	1.5	21.7	22.6	24.3
IRE2XSTYVI1525	15P	2.5	-	-	30.1
IRE2XSTYVI2005	20P	0.5	15.8	17.1	20.8
IRE2XSTYVI2075	20P	0.75	18.4	19.7	23.4
IRE2XSTYVI2010	20P	1	19.1	19.1	22.9
IRE2XSTYVI2015	20P	1.5	24.6	25.6	27.5
IRE2XSTYVI2025	20P	2.5	-	-	34.2
IRE2XSTYVI3005	30P	0.5	18.6	20.1	24.6
IRE2XSTYVI3075	30P	0.75	21.7	23.2	27.7
IRE2XSTYVI3010	30P	1	22.6	22.6	27.1
IRE2XSTYVI3015	30P	1.5	29.1	30.3	32.6
IRE2XSTYVI3025	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