

RE-2X(st)Y QY - BS EN 50288-7 XLPE / CAM / GSWB / 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 2 stranded 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) with tinned drain wire

Inner Sheath

PVC (Polyvinyl Chloride) according to BS EN 50290

Armour

GSWB (Galvanized Steel Wire Braid)

Outer Sheath

PVC (Polyvinyl Chloride) according to BS EN 50290

Note

Available with increased, flame retardant, 'fl' version.

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, BS EN 60228



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 (U_o/U)

300/500V

Operating Temperature

Fixed: -30°C +70°C

Core Identification

○ White and ● Black numbered

● Blue and ● Black numbered available on request

Minimum Bending Radius

8 x overall diameter

Outer Sheath Colour

● Blue ● Black

Note

90V and 500V rated cables available on request

DIMENSIONS

Collectively Screened Multi-Pair

ELAND PART NO.	NO. OF PAIRS	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
RE2XYQYC1P05**	1	0.5	10	140
RE2XYQYC1P75**	1	0.75	10.2	160
RE2XYQYC1P10**	1	1	10.8	180
RE2XYQYC1P13**	1	1.3	11.2	195
RE2XYQYC1P15**	1	1.5	11.5	215
RE2XYQYC2P05**	2	0.5	12.2	184
RE2XYQYC2P75**	2	0.75	12.8	219
RE2XYQYC2P10**	2	1	13.4	250
RE2XYQYC2P13**	2	1.3	14	272
RE2XYQYC2P15**	2	1.5	14.5	300
RE2XYQYC4P05**	4	0.5	13.4	237
RE2XYQYC4P75**	4	0.75	14.2	278
RE2XYQYC4P10**	4	1	15.2	325
RE2XYQYC4P13**	4	1.3	16	365
RE2XYQYC4P15**	4	1.5	16.5	385
RE2XYQYC6P05**	6	0.5	15.4	321
RE2XYQYC6P75**	6	0.75	16.4	373
RE2XYQYC6P10**	6	1	17.4	428
RE2XYQYC6P13**	6	1.3	18.4	484
RE2XYQYC6P15**	6	1.5	19.5	535
RE2XYQYC8P05**	8	0.5	16.5	359
RE2XYQYC8P75**	8	0.75	17.6	420
RE2XYQYC8P10**	8	1	19	501
RE2XYQYC8P13**	8	1.3	20	587
RE2XYQYC8P15**	8	1.5	21.5	652
RE2XYQYC10P05**	10	0.5	18	417
RE2XYQYC10P75**	10	0.75	19.5	496
RE2XYQYC10P10**	10	1	21	607
RE2XYQYC10P13**	10	1.3	22.3	718
RE2XYQYC10P15**	10	1.5	23.8	784
RE2XYQYC12P05**	12	0.5	18.3	456
RE2XYQYC12P75**	12	0.75	20	564
RE2XYQYC12P10**	12	1	21.3	672
RE2XYQYC12P13**	12	1.3	22.7	797
RE2XYQYC12P15**	12	1.5	24.6	879
RE2XYQYC16P05**	16	0.5	20.4	568
RE2XYQYC16P75**	16	0.75	22.2	708
RE2XYQYC16P10**	16	1	24	840
RE2XYQYC16P13**	16	1.3	25.2	989
RE2XYQYC16P15**	16	1.5	26.8	1090
RE2XYQYC20P05**	20	0.5	22.5	663
RE2XYQYC20P75**	20	0.75	24.3	822
RE2XYQYC20P10**	20	1	26.2	997
RE2XYQYC20P13**	20	1.3	28	1180
RE2XYQYC20P15**	20	1.5	30.5	1324

ELAND PART NO.	NO. OF PAIRS	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
RE2XYQYC24P05**	24	0.5	24	750
RE2XYQYC24P75**	24	0.75	26	956
RE2XYQYC24P10**	24	1	28	1139
RE2XYQYC24P13**	24	1.3	30	1369
RE2XYQYC24P15**	24	1.5	34.4	1589

Collectively and Individually Screened Pairs in Metal Foil - PiMF

ELAND PART NO.	NO. OF PAIRS	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
RE2XYQYI2P05**	2	0.5	13.3	213
RE2XYQYI2P75**	2	0.75	13.8	244
RE2XYQYI2P10**	2	1	14.9	286
RE2XYQYI2P13**	2	1.3	15.7	316
RE2XYQYI2P15**	2	1.5	16	330
RE2XYQYI4P05**	4	0.5	15	296
RE2XYQYI4P75**	4	0.75	15.8	346
RE2XYQYI4P10**	4	1	16.7	380
RE2XYQYI4P13**	4	1.3	17.5 0	420
RE2XYQYI4P15**	4	1.5	18	451
RE2XYQYI6P05**	6	0.5	17.0 0	377
RE2XYQYI6P75**	6	0.75	18	446
RE2XYQYI6P10**	6	1	19.4 0	505
RE2XYQYI6P13**	6	1.3	19.7	613
RE2XYQYI6P15**	6	1.5	20.9	650
RE2XYQYI8P05**	8	0.5	18	441
RE2XYQYI8P75**	8	0.75	19.4 0	514
RE2XYQYI8P10**	8	1	20	630
RE2XYQYI8P13**	8	1.3	22	722
RE2XYQYI8P15**	8	1.5	22.6	762
RE2XYQYI10P05**	10	0.5	20.7	570
RE2XYQYI10P75**	10	0.75	22.3	644
RE2XYQYI10P10**	10	1	23.7	769
RE2XYQYI10P13**	10	1.3	25	880
RE2XYQYI10P15**	10	1.5	26	933
RE2XYQYI12P05**	12	0.5	21.2	680
RE2XYQYI12P75**	12	0.75	23	713
RE2XYQYI12P10**	12	1	22.4	854
RE2XYQYI12P13**	12	1.3	26	987
RE2XYQYI12P15**	12	1.5	26.8	1053
RE2XYQYI16P05**	16	0.5	23.3	800
RE2XYQYI16P75**	16	0.75	25	891
RE2XYQYI16P10**	16	1	26.8	1049
RE2XYQYI16P13**	16	1.3	28.5	1201
RE2XYQYI16P15**	16	1.5	29.6	1314

ELAND PART NO.	NO. OF PAIRS	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
RE2XYQYI20P05**	20	0.5	25.6	913
RE2XYQYI20P75**	20	0.75	27.5	1060
RE2XYQYI20P10**	20	1	29.6	1199
RE2XYQYI20P13**	20	1.3	31.4	1483
RE2XYQYI20P15**	20	1.5	32.7	1597
RE2XYQYI24P05**	24	0.5	28.2	1064
RE2XYQYI24P75**	24	0.75	30.3	1251
RE2XYQYI24P10**	24	1	32.7	1474
RE2XYQYI24P13**	24	1.3	35.2	1776
RE2XYQYI24P15**	24	1.5	36.5	1944

Eland Part No. shown above designate the sheath colour (). For each colour substitute * for a colour code as listed below. e.g. RE2XYQYI20P05BK = 0.5mm² Black

Colour Codes

COLOUR	Black	Blue
CODE	BK	BL

CONDUCTORS

NOMINAL CROSS SECTIONAL AREA mm ²	MAXIMUM DC RESISTANCE OF CONDUCTOR AT 20°C ohms/km	
	Class 1 & 2	Class 5
0.5	36	39
0.75	24.5	26
1	18.1	19.5
1.3	13.9	-
1.5	12.1	13.3
2.5	7.41	7.98

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
	Multi-Pair	PiMF		
0.5	65	-	5000	25
0.75	65	100	5000	25
1	65	100	5000	25
1.3	75	100	5000	40
1.5	75	100	5000	40