

# RE-Y(st)Y SWAY - BS EN 50288-7 PVC / 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.

## 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.

## CONSTRUCTION

### Conductor

Class 2 stranded copper conductor

### Insulation

PVC (Polyvinyl Chloride)

### Individual And Collective Screen Or Collective Screen

PET (Polyester Tape)

AL/PET (Aluminium/Polyester Tape) with tinned drain wire

Multi-Core, Multi-Pair, PiMF and TiMF Type

### Inner Sheath

PVC (Polyvinyl Chloride)

### Armour

GSWA (Galvanized Steel Wire Armour)

### Outer Sheath

PVC (Polyvinyl Chloride)

### Note

Also available with increased flame retardance, 'fl' version.

## CHARACTERISTICS

### Voltage Rating (U<sub>o</sub>/U)

300/500V

### Operating Temperature

Fixed: -30°C to +70°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 Multi-Core

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
REYYSYC2C05**	2	0.5	10.4	205
REYYSYC2C75**	2	0.75	10.8	218
REYYSYC2C10**	2	1	11.4	246
REYYSYC2C15**	2	1.5	12	271
REYYSYC2C25**	2	2.5	13.3	337
REYYSYC3C05**	3	0.5	10.6	217
REYYSYC3C75**	3	0.75	11	241
REYYSYC3C10**	3	1	11.5	267
REYYSYC3C15**	3	1.5	12.4	307
REYYSYC3C25**	3	2.5	13.6	385
REYYSYC4C05**	4	0.5	11.1	242
REYYSYC4C75**	4	0.75	11.4	262
REYYSYC4C10**	4	1	12.2	297
REYYSYC4C15**	4	1.5	13	343
REYYSYC4C25**	4	2.5	14.4	430
REYYSYC5C05**	5	0.5	11.9	274
REYYSYC5C75**	5	0.75	12.3	304
REYYSYC5C10**	5	1	12.4	310
REYYSYC5C15**	5	1.5	13.8	390
REYYSYC5C25**	5	2.5	15.6	502
REYYSYC6C05**	6	0.5	12.4	291
REYYSYC6C75**	6	0.75	12.9	334
REYYSYC6C10**	6	1	13.5	369
REYYSYC6C15**	6	1.5	14.5	436
REYYSYC6C25**	6	2.5	16.5	562
REYYSYC7C05**	7	0.5	12.4	300
REYYSYC7C75**	7	0.75	12.9	341
REYYSYC7C10**	7	1	13.5	378
REYYSYC7C15**	7	1.5	14.5	449
REYYSYC7C25**	7	2.5	16.5	583
REYYSYC10C05**	10	0.5	14.2	377
REYYSYC10C75**	10	0.75	14.9	433
REYYSYC10C10**	10	1	15.9	495
REYYSYC10C15**	10	1.5	17.2	586
REYYSYC10C25**	10	2.5	19.8	777
REYYSYC12C05**	12	0.5	14.4	405
REYYSYC12C75**	12	0.75	15.2	462
REYYSYC12C10**	12	1	16.3	531
REYYSYC12C15**	12	1.5	17.6	621
REYYSYC12C25**	12	2.5	20.2	845
REYYSYC19C05**	19	0.5	16.2	500
REYYSYC19C75**	19	0.75	17.1	580
REYYSYC19C10**	19	1	18.2	660
REYYSYC19C15**	19	1.5	19.9	820
REYYSYC19C25**	19	2.5	23.8	1305

ELAND PART NO.	NO. OF CORES	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
REYYSYC24C05**	24	0.5	18	608
REYYSYC24C75**	24	0.75	19	699
REYYSYC24C10**	24	1	21.2	932
REYYSYC24C15**	24	1.5	23.3	1119
REYYSYC24C25**	24	2.5	27	1544

**Collectively Screened Multi-Pair**

ELAND PART NO.	NO. OF PAIRS	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
REYYSYC1P05**	1	0.5	10.6	223
REYYSYC1P75**	1	0.75	10.8	222
REYYSYC1P10**	1	1	11.4	246
REYYSYC1P13**	1	1.3	11.8	267
REYYSYC1P15**	1	1.5	12	272
REYYSYC2P05**	2	0.5	12.8	298
REYYSYC2P75**	2	0.75	13.4	332
REYYSYC2P10**	2	1	14	365
REYYSYC2P13**	2	1.3	14.7	396
REYYSYC2P15**	2	1.5	15	416
REYYSYC4P05**	4	0.5	14	364
REYYSYC4P75**	4	0.75	14.8	412
REYYSYC4P10**	4	1	15.8	463
REYYSYC4P13**	4	1.3	16.6	500
REYYSYC4P15**	4	1.5	17	543
REYYSYC6P05**	6	0.5	16	466
REYYSYC6P75**	6	0.75	17	529
REYYSYC6P10**	6	1	18	615
REYYSYC6P13**	6	1.3	19	685
REYYSYC6P15**	6	1.5	20.1	750
REYYSYC8P05**	8	0.5	17.2	525
REYYSYC8P75**	8	0.75	18.2	610
REYYSYC8P10**	8	1	19.5	685
REYYSYC8P13**	8	1.3	21.3	885
REYYSYC8P15**	8	1.5	22.1	960
REYYSYC10P05**	10	0.5	18.6	596
REYYSYC10P75**	10	0.75	20.1	715
REYYSYC10P10**	10	1	22.1	925
REYYSYC10P13**	10	1.3	23.5	1055
REYYSYC10P15**	10	1.5	24.4	1115
REYYSYC12P05**	12	0.5	18.9	640
REYYSYC12P75**	12	0.75	21.1	875
REYYSYC12P10**	12	1	22.4	1025
REYYSYC12P13**	12	1.3	23.9	1150
REYYSYC12P15**	12	1.5	25.2	1230
REYYSYC16P05**	16	0.5	21.7	880
REYYSYC16P75**	16	0.75	23.4	1055
REYYSYC16P10**	16	1	25.2	1250

ELAND PART NO.	NO. OF PAIRS	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
REYYSYC16P13**	16	1.3	26.4	1375
REYYSYC16P15**	16	1.5	27.4	1480
REYYSYC20P05**	20	0.5	23.8	1035
REYYSYC20P75**	20	0.75	25.5	1235
REYYSYC20P10**	20	1	27.4	1410
REYYSYC20P13**	20	1.3	29.2	1600
REYYSYC20P15**	20	1.5	31	1760
REYYSYC24P05**	24	0.5	25.2	1125
REYYSYC24P75**	24	0.75	27.3	1320
REYYSYC24P10**	24	1	29.2	1598
REYYSYC24P13**	24	1.3	31.3	1825
REYYSYC24P15**	24	1.5	35	2275

### Collectively and Individually Screened Pairs in Metal Foil - PiMF

ELAND PART NO.	NO. OF PAIRS	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
REYYSYI2P05**	2	0.5	14	352
REYYSYI2P75**	2	0.75	14.4	383
REYYSYI2P10**	2	1	15.5	425
REYYSYI2P13**	2	1.3	16.5	465
REYYSYI2P15**	2	1.5	16.8	483
REYYSYI4P05**	4	0.5	15.6	444
REYYSYI4P75**	4	0.75	16.5	487
REYYSYI4P10**	4	1	17.5	544
REYYSYI4P13**	4	1.3	18.1	592
REYYSYI4P15**	4	1.5	19	629
REYYSYI6P05**	6	0.5	17.6	563
REYYSYI6P75**	6	0.75	18.8	629
REYYSYI6P10**	6	1	20	712
REYYSYI6P13**	6	1.3	21	894
REYYSYI6P15**	6	1.5	22.5	975
REYYSYI8P05**	8	0.5	18.8	625
REYYSYI8P75**	8	0.75	20	715
REYYSYI8P10**	8	1	21.5	925
REYYSYI8P13**	8	1.3	23.5	1030
REYYSYI8P15**	8	1.5	24	1100
REYYSYI10P05**	10	0.5	22	875
REYYSYI10P75**	10	0.75	24	998
REYYSYI10P10**	10	1	25	1125
REYYSYI10P13**	10	1.3	26.5	1235
REYYSYI10P15**	10	1.5	27.5	1313
REYYSYI12P05**	12	0.5	22.5	935
REYYSYI12P75**	12	0.75	24.5	1069
REYYSYI12P10**	12	1	26	1230
REYYSYI12P13**	12	1.3	27.5	1350
REYYSYI12P15**	12	1.5	28.1	1450
REYYSYI16P05**	16	0.5	24.6	1125
REYYSYI16P75**	16	0.75	26.5	1280

ELAND PART NO.	NO. OF PAIRS	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
REYYSYI16P10**	16	1	28.1	1450
REYYSYI16P13**	16	1.3	30	1630
REYYSYI16P15**	16	1.5	31	1775
REYYSYI20P05**	20	0.5	26.9	1295
REYYSYI20P75**	20	0.75	29	1490
REYYSYI20P10**	20	1	31	1695
REYYSYI20P13**	20	1.3	33.5	2100
REYYSYI20P15**	20	1.5	35	2270
REYYSYI24P05**	24	0.5	30	1500
REYYSYI24P75**	24	0.75	32	1725
REYYSYI24P10**	24	1	35	2170
REYYSYI24P13**	24	1.3	37.5	2475
REYYSYI24P15**	24	1.5	39	2660

### Collectively and Individually Screened Triple in Metal Foil - TiMF

ELAND PART NO.	NO. OF TRIPLE	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
REYYSYI2T05**	2	0.5	15	395
REYYSYI2T75**	2	0.75	15.9	439
REYYSYI2T10**	2	1	16.7	485
REYYSYI2T13**	2	1.3	17.6	534
REYYSYI2T15**	2	1.5	18	563
REYYSYI4T05**	4	0.5	16.8	508
REYYSYI4T75**	4	0.75	17.7	569
REYYSYI4T10**	4	1	18.7	630
REYYSYI4T13**	4	1.3	20	718
REYYSYI4T15**	4	1.5	20.4	760
REYYSYI6T05**	6	0.5	19.1	655
REYYSYI6T75**	6	0.75	21.2	859
REYYSYI6T10**	6	1	22.3	960
REYYSYI6T13**	6	1.3	23.9	1090
REYYSYI6T15**	6	1.5	24.5	1152
REYYSYI8T05**	8	0.5	21.2	855
REYYSYI8T75**	8	0.75	22.5	968
REYYSYI8T10**	8	1	23.9	1130
REYYSYI8T13**	8	1.3	25.5	1270
REYYSYI8T15**	8	1.5	26.1	1324
REYYSYI10T05**	10	0.5	24.2	1035
REYYSYI10T75**	10	0.75	25.7	1176
REYYSYI10T10**	10	1	27.4	1370
REYYSYI10T13**	10	1.3	29.3	1580
REYYSYI10T15**	10	1.5	30	1607
REYYSYI12T05**	12	0.5	24.8	1115
REYYSYI12T75**	12	0.75	26.4	1273
REYYSYI12T10**	12	1	28.1	1480
REYYSYI12T13**	12	1.3	30.1	1700
REYYSYI12T15**	12	1.5	31.1	1820

ELAND PART NO.	NO. OF TRIPLE	NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	NOMINAL OVERALL DIAMETER mm	NOMINAL WEIGHT kg/km
REYYSY116T05**	16	0.5	27.4	1350
REYYSY116T75**	16	0.75	28.9	1536
REYYSY116T10**	16	1	31.1	1791
REYYSY116T13**	16	1.3	33.8	2280
REYYSY116T15**	16	1.5	35.3	2450
REYYSY120T05**	20	0.5	29.5	1560
REYYSY120T75**	20	0.75	31.7	1800
REYYSY120T10**	20	1	34.4	2300
REYYSY120T13**	20	1.3	37.5	2700
REYYSY120T15**	20	1.5	38.7	2830
REYYSY124T05**	24	0.5	33	1975
REYYSY124T75**	24	0.75	36	2360
REYYSY124T10**	24	1	38.5	2740
REYYSY124T13**	24	1.3	41.3	3150
REYYSY124T15**	24	1.5	42.6	3320

## CONDUCTORS

NOMINAL CROSS SECTIONAL AREA mm <sup>2</sup>	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 <sup>2</sup>	MUTUAL CAPACITANCE pF/m				MINIMUM INSULATION RESISTANCE AT 20°C Mohms/km	MAXIMUM L/R RATIO μH/ohms
	Multi-Core	Multi-Pair	PIMF	TiMF		
0.5	115	65	100	100	5000	25
0.75	115	65	100	100	5000	25
1	115	65	100	100	5000	25
1.3	115	75	100	100	5000	40
1.5	115	75	100	100	5000	40
2.5	115	-	-	-	5000	60