

BS EN 50288-7 RE-2Y(st)Y SWAY PVC PiMF 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.). Pairs are individually shielded for enhanced signal security. Suitable for direct burial applications.

CONSTRUCTION

Conductor

0.5mm² - 0.75mm²: Class 5 flexible copper conductor
1mm² and above: Class 2 stranded copper conductor

Insulation

PE (Polyethylene)

Individual and Collective Screen

Al/PET (Aluminium/Polyester Tape)

Inner Sheath

PVC (Polyvinyl Chloride)

Armour

SWA (Galvanised steel wires)

Sheath

PVC (Polyvinyl Chloride)

Note

500V rated cables available on request
XLPE (Cross-Linked Polyethylene) insulated cables available on request

CABLE STANDARDS

BS EN 50288-7, BS EN 50288-1, BS EN 50290-2, HD 383
Flame Retardant according to BS EN/IEC 60332-1-2,
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

Fixed: -40°C to +80°C
Moved: 0°C to +50°C

Minimum Bending Radius

Fixed: 12 x overall diameter

Core Identification

Pairs: ○ White ● Black numbered
Triples: ○ White ● Black ● Red

Sheath Colour

● Blue ● Black

DIMENSIONS

ELAND PART NO.	NO. OF PAIRS/TRIPLES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL OUTER DIAMETER mm
EN02P05AWICXY**	2P	0.5	11.9
EN02P07AWICXY**	2P	0.75	12.9
EN02P10AWICXY**	2P	1	12.7
EN02P15AWICXY**	2P	1.5	15.2
EN01T05AWICXY**	1T	0.5	12.3
EN01T07AWICXY**	1T	0.75	13.4
EN01T10AWICXY**	1T	1	13.2

ELAND PART NO.	NO. OF PAIRS/TRIPLES	NOMINAL CROSS SECTIONAL AREA mm ²	NOMINAL OUTER DIAMETER mm
EN01T15AWICXY**	1T	1.5	15.9
EN05P05AWICXY**	5P	0.5	14
EN05P07AWICXY**	5P	0.75	15.4
EN05P10AWICXY**	5P	1	15.1
EN05P15AWICXY**	5P	1.5	18.5
EN10P05AWICXY**	10P	0.5	18
EN10P07AWICXY**	10P	0.75	20.6
EN10P10AWICXY**	10P	1	22
EN10P15AWICXY**	10P	1.5	26.1
EN15P05AWICXY**	15P	0.5	20.7
EN15P07AWICXY**	15P	0.75	23.1
EN15P10AWICXY**	15P	1	22.6
EN15P15AWICXY**	15P	1.5	29.5
EN20P05AWICXY**	20P	0.5	22.9
EN20P07AWICXY**	20P	0.75	26.3
EN20P10AWICXY**	20P	1	25.8
EN20P15AWICXY**	20P	1.5	33.5
EN30P05AWICXY**	30P	0.5	26.8
EN30P07AWICXY**	30P	0.75	30.1
EN30P10AWICXY**	30P	1	29.4
EN30P15AWICXY**	30P	1.5	38.4

P = Pairs, Q = Quads, T = Triples

* Designates the sheath colour. For each Eland Cables part number replace with the colour code as listed below. e.g. EN02P05AWICXYBK = 0.5mm² Black

CORE IDENTIFICATION

COLOUR	Blue	Black
CODE	BL	BK

CONDUCTORS

NOMINAL CROSS SECTIONAL AREA mm ²	MAXIMUM DC RESISTANCE OF CONDUCTOR AT 20°C ohms/km	
	Class 2	Class 5
0.5	36.36	39.39
0.75	24.8	26.8
1	18.3	19.7
1.5	12.42	13.43
2.5	7.56	8.05

ELECTRICAL CHARACTERISTICS

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

The information contained within this datasheet is for guidance only and is subject to change without notice or liability. All the information is provided in good faith and is believed to be correct at the time of publication. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances.