EN 50288-7 - RE-2Y(st)Y SWAY PVC PiMF Cable

Eland Product Group: EN

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.

CHARACTERISTICS

Voltage Rating
300V

Operating Temperature
Fixed: -40°C to +80°C
Flexed: 0°C to +50°C

Minimum Bending Radius
12 x overall diameter

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)

Drain Wire
Tinned Copper

Inner Sheath
PVC (Polyvinyl Chloride)

Armour
SWA (Galvanised steel wires)

Outer Sheath
PVC (Polyvinyl Chloride) - UV Resistant

Core Identification
Pairs: ○ White ● Black, numbered
Triples: ○ White ● Black ● Red

Outer Sheath Colour
● Blue ● Black

Note
500V rated cables available on request

STANDARDS

EN 50288-7, EN 50288-1, EN 60228, HD 383

Flame Retardant according to: IEC/EN 60332-1-2, IEC/EN 60332-3-24
UV Resistant

THE CABLE LAB®

AN ISO/IEC 17025 AND IECEE CBTL ACCREDITED FACILITY

Our world-class testing facility assures the quality and compliance of this cable through a continuous and rigorous testing regime.

SUSTAINABILITY COMMITMENT

We are on a journey to Net Zero.

We've committed to near-term emissions reductions and a net-zero target with the Science Based Targets initiative and we're a signatory to the United Nations Global Compact Sustainable Development Goals.

Learn more about embodied carbon and our carbon emissions reduction actions, our comprehensive recycling services, and wider ESG activities for sustainable operations at: www.elandcables.com/company/about-us/esg-sustainability

REGULATORY COMPLIANCE

This cable is compliant with European Regulation EN 50575, the Construction Products Regulation.

This cable meets the requirements of the Low Voltage Directive 2014/35/EU, the RoHS Directive 2015/65/EU and Reach Directive EC 1907/2006. RoHS compliance has been tested and confirmed by The Cable Lab®.

DIMENSIONS

ELAND PART NO.	NO. OF PAIRS/TRIPLE	NOMINAL CROSS SECTIONAL AREA mm²	NOMINAL OVERALL DIAMETER mm
EN01P05AWUCXY**	1P	0.5	9
EN01P07AWUCXY**	1P	0.75	9.5
EN01P10AWUCXY**	1P	1	9.4
EN01P15AWUCXY**	1P	1.5	10.8
EN01T05AWUCXY**	1T	0.5	9.2
EN01T07AWUCXY**	1T	0.75	9.8
EN01T10AWUCXY**	1T	1	9.7
EN01T15AWUCXY**	1T	1.5	11.3
EN02P05AWUCXY**	2P(Q)	0.5	11.2
EN02P07AWUCXY**	2P(Q)	0.75	12.2
EN02P10AWUCXY**	2P(Q)	1	12
EN02P15AWUCXY**	2P(Q)	1.5	14.4
EN05P05AWUCXY**	5P	0.5	13.1
EN05P07AWUCXY**	5P	0.75	14.4
EN05P10AWUCXY**	5P	1	14.2
EN05P15AWUCXY**	5P	1.5	17.4
EN10P05AWUCXY**	10P	0.5	16.7
EN10P07AWUCXY**	10P	0.75	18.6
EN10P10AWUCXY**	10P	1	18.2
EN10P15AWUCXY**	10P	1.5	23.7
EN15P05AWUCXY**	15P	0.5	18.6
EN15P07AWUCXY**	15P	0.75	21.5
EN15P10AWUCXY**	15P	1	21
EN15P15AWUCXY**	15P	1.5	27.5
EN20P05AWUCXY**	20P	0.5	21.1
EN20P07AWUCXY**	20P	0.75	23.7
EN20P10AWUCXY**	20P	1	23.1
EN20P15AWUCXY**	20P	1.5	30.4

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. EN01P05AWUCXYBK = 0.5mm² Black

COLOUR CODES

COLOUR	Blue	Black
CODE	BL	BK

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International T +44 20 7241 8740 | F +44 20 7241 8700 | international@elandcables.com

CONDUCTORS

NOMINAL CROSS SECTIONAL AREA mm²	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 mm²	MUTUAL CAPACITANCE pF/m	MINIMUM INSULATION RESISTANCE AT 20°C Gohms/km	MAXIMUM L/R RATIO µH/ohms
0.5	115	>10	25
0.75	115	>10	25
1	115	>10	25
1.5	120	>10	40
2.5	120	>10	65