



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

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)

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

Outer Sheath Colour
● Blue ● Black

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

ISO/IEC 17025 LABORATORY TESTED

This product is subject to the Quality Assurance protocols of The Cable Lab®, an ISO/IEC 17025 accredited cable testing laboratory. Testing includes vertical flame, conductor resistance, tensile & elongation, and dimensional consistency, verified to published standards and approved product drawings.



8578

FS 672069

EMS 672067

OHS 672066

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 and the RoHS Directive 2011/65/EU. RoHS compliance has been tested and confirmed by The Cable Lab® as meeting the requirements of the BSI RoHS Trusted Kitemark™.





DIMENSIONS

| ELAND PART NO. | NO. OF PAIRS/TRIPLE | NOMINAL CROSS SECTIONAL AREA mm ² | 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 |

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 |
|---|-------------------------|--------------|---|------------------------------|
| | 1P / 2P(Q) / 1T only | 5P, 10P, 20P | | |
| 0.5 | 115 | 75 | >10 | 25 |
| 0.75 | 115 | 75 | >10 | 25 |
| 1 | 115 | 75 | >10 | 25 |
| 1.5 | 120 | 85 | >10 | 40 |
| 2.5 | 120 | 85 | >10 | 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.