



- Instrumentation cables 170/300 V
- Individual & Overall Screen (IOS)
- **Oil resistant**

### STANDARDS

Test IEC 60332-3-22 Cat.A

### APPLICATIONS

These Instrumentation and communication are used to **transmit analogue or digital signals in measurement and process control** They are well adapted **tounderground use in industrial applications where chemical and mechanical protections are needed (refinery areas, chemical plant...)**. The individual screening of each pair limits the consequence of crosstalk.

### Design

#### Conductor:

Stranded bare copper class 2

#### Insulation:

Cross-linked polyethylene (XLPE)

#### Individual screen:

Polyester tape

Tinned copper drain wire

Aluminium backed polyester tape

Polyester tape

#### Overall screen:

Polyester tape

Tinned copper drain wire

Aluminium backed polyester tape

#### Inner sheath:

Polyvinyl chloride (PVC)

#### Armour:

Galvanized steel wires (SWA)

#### Outer sheath:

Polyvinyl chloride (PVC)

Colour: black

Other colour on request

Fire retardant  
EN IEC 60332-3-22  
Yes

Oil resistance  
Yes



Electro magnetic interference resistance  
Yes



Operating temp.  
-20 ... 60 °C



Max. conductor temp.in service  
90 °C



Rated Voltage Uo/U (Um)  
170/300V



Mechanical resistance to impacts  
Good

### Core identification

Pair: white - black  
White core printed with pair number

### CONTACT

Market information  
industryprojects.business@lynx<sup>eo</sup>  
ogroup.com

### CHARACTERISTICS

#### Construction characteristics

|                    |   |
|--------------------|---|
| Conductor material | Bare copper   |
| Type of conductor  | Stranded, class 2                                   |
| Insulation         | XLPE (Cross-linked Polyethylene)                    |
| Individual screen  | Tinned copper drain wire + aluminium/polyester tape |
| Overall screen     | Tinned copper drain wire + aluminium/polyester tape |
| Inner sheath       | PVC   |
| Armour type        | Galvanized steel wires                              |
| Outer sheath       | PVC   |
| Protection         | Yes   |

#### Dimensional characteristics

|                            |                     |
|----------------------------|---------------------|
| Number of pairs            | 30                  |
| Conductor cross-section    | 1.5 mm <sup>2</sup> |
| Conductor diameter         | 1.5 mm              |
| Diameter over insulation   | 2.16 mm             |
| Diameter over inner sheath | 29.3 mm             |
| Diameter over armour       | 31.8 mm             |
| Minimum outer diameter     | 34.5 mm             |
| Maximum outer diameter     | 38.1 mm             |
| Approximate weight         | 2590 kg/km          |

#### Electrical characteristics

|                                      |          |
|--------------------------------------|----------|
| Rated Voltage U <sub>0</sub> /U (Um) | 170/300V |
|--------------------------------------|----------|

#### Mechanical characteristics

|                                  |      |
|----------------------------------|------|
| Mechanical resistance to impacts | Good |
|----------------------------------|------|

#### Usage characteristics

|  |                           |
|--|---------------------------|
| Fire retardant                           | EN IEC 60332-3-22 (cat A) |
| Oil resistance                           | Yes                       |
| Electro magnetic interference resistance | Yes                       |
| Operating temperature, range             | -20 ... 60 °C             |
| Max. conductor temperature in service    | 90 °C                     |
| Standard                                 | EN                        |

### SELLING AND DELIVERY INFORMATION

Other fire performances IEC 60332-1 or IEC 60332-3-24(C) and enhanced hydrocarbon resistance on request.

Minimum bending radius:



Rated Voltage U<sub>0</sub>/U (Um)  
170/300V



Mechanical resistance to impacts  
Good



Fire retardant  
EN IEC 60332-3-22 (cat A)



Oil resistance  
Yes



Electro magnetic interference resistance  
Yes



Operating temp.  
-20 ... 60 °C



Max. conductor temp. in service  
90 °C

10 x outer diameter  
To be doubled during laying operations

Tinned copper conductors available on request



Rated Voltage U<sub>0</sub>/U  
(Um)  
170/300V



Mechanical resistance  
to impacts  
Good



Fire retardant  
EN IEC 60332-3-22  
(cat A)



Oil resistance  
Yes



Electro magnetic  
interference resistance  
Yes



Operating temp.  
-20 ... 60 °C



Max. conductor temp.in  
service  
90 °C