



**Product:** [3076ELS](#) 

Profibus PA, 1PR #18 Str TC, PO ins, OS, LSZH Jkt, 300V SWA

## Product Description

Profibus PA, 1 Pair AWG 18 Tinned Copper - Stranded, Polyolefin (PO, PE, PP) insulation, Foil(s) or Copper Tape(s) shielding, LSZH / FRNC jacket , 300V SWA

## Technical Specifications

### Product Overview

Suitable Applications:	Profibus PA or Foundation FieldBus PA exposure to rodent, crush, or cut through force, harsh environment, outdoors, where multiple cable runs are required, data transmission applications such as Profibus DP or PA, Instrumentation and computer cable, etc. exposure to temperature extremes, humidity/moisture, dust, and oil.
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### Construction Details

#### Conductor

Size	Stranding	Material
18	7x26	TC - Tinned Copper

#### Insulation

Material	Nom. Thickness	Nom. Insulation Diameter	Color Code
PE - Polyethylene	0.67 mm (0.026 in)	2.55 mm (0.100 in)	White & Black, Orange & Blue

#### Inner Shield

Shield Type	Material
Tape	Bi-Laminate (Alum+Poly)

#### Inner Jacket

Material	Nom. Thickness	Nom. Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant)	1.15 mm (0.0453 in)	7.5 mm (0.30 in)

#### Armor

Armor Type & Material	Armor Thickness	Coverage
SWA - Steel Wire Armor	0.9 mm	Min. 95%

#### Outer Jacket

Material	Nom. Thickness	Nom. Diameter
LSZH - Low Smoke Zero Halogen (Flame Retardant)	1.85 mm (0.0728 in)	13 mm

### Electrical Characteristics

#### Electricals

Max. Conductor DCR	Max. Capacitance Unbalance	Nom. Characteristic Impedence	Nom. Inductance	Nom. Velocity of Prop.
20.5 Ohm/km	4 pF/m	100 Ohm	0.62 uH/m	66%

### Mechanical Characteristics

#### Temperature

Installation	Storage
-15°C To +80°C	-45°C To +80°C

## Bend Radius

Stationary Min.	Installation Min.
170 mm (6.7 in)	260 mm (10 in)

## Standards and Compliance

Environmental Suitability:	Indoor/Indoor/OutdoorOutdoor/Indoor/Outdoor - Euroclass Eca, Outdoor, Sunlight Resistance
Flammability / Reaction to Fire:	IEC 60332-1-2, IEC 60332-3-24
CPR Compliance:	CPR Euroclass: Eca
ISO/IEC Compliance:	IEC 61158-2
CENELEC Compliance:	EN 50290-2-27, EN 50288-7
European Halogen Free Standards:	IEC 62821-1 Halogen Free Compliance = Yes, IEC 60754-1 - Halogen Amount = Zero, IEC 60754-2 - Halogen Acid Gas Amount - Max. Conductivity = 2.5 $\mu$ S/mm, IEC 60754-2 - Halogen Acid Gas Amount - Min. pH = 4.3, IEC 61034-2 - Smoke Density Min. Transmittance = 60%
UK Regulation Compliance:	UKCA Mark

## History

Update and Revision:	Revision Number: 0.240 Revision Date: 12-24-2025
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## Part Numbers

### Variants

Item #	Color	Putup Type	Length	EAN
3076ELS.07500	Black	Reel	500 m	8719605180131
3076ELS.00500	Blue	Reel	500 m	8719605005397
3076ELS.001000	Blue	Reel	1,000 m	8719605005380
3076ELS.03320	Orange	Reel	320 m	8719605005441
3076ELS.03500	Orange	Reel	500 m	8719605005458
3076ELS.031000	Orange	Reel	1,000 m	8719605005434
3076ELS.051000	Orange	Reel	1,000 m	8719605005465
3076ELS.K31000	Orange	Reel	1,000 m	8719605005472
3076ELS.031150	Orange	Reel	1,150 m	8719605179968
3076ELS.02500	Yellow	Reel	500 m	8719605005427
3076ELS.021000	Yellow	Reel	1,000 m	8719605005403
3076ELS.021100	Yellow	Reel	1,100 m	8719605005410

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