



**Part Number:** 8760NH

Multi-Conductor, (1 pr) 18 AWG (16x30) TC, PE/LSZH, Foil Shld.

[Request Sample](#)

## Product Description

One 18 AWG pair stranded (16x30) tinned copper conductors, twisted pair, polyethylene insulation, overall Beldfoil® shield (100% coverage), zero halogen jacket.

## Technical Specifications

### Product Overview

|                        |  |
|------------------------|--|
| Environmental Space:   | Indoor - Euroclass B2ca  |
| Suitable Applications: | Instrumentation and computer cable; For data transmission applications |

### Physical Characteristics (Overall)

#### Conductor

| AWG | Stranding | Material           | No. of Conductors | No. of Pairs |
|-----|-----------|--------------------|-------------------|--------------|
| 18  | 16x30     | TC - Tinned Copper | 2                 | 1            |

|                        |        |
|------------------------|--------|
| Conductor Count:       | 2      |
| Total Number of Pairs: | 1      |
| Conductor Size:        | 18 AWG |

#### Insulation

| Material          | Diameter +/- Tolerance |
|-------------------|------------------------|
| PE - Polyethylene | 0.05 mm                |

#### Color Chart

| Number | Color         |
|--------|---------------|
| Pair 1 | Black & Clear |

#### Outer Shield Material

| Type | Material           | Material Trade Name | Coverage [%] | Thickness of Foil | Drainwire Material | Drainwire AWG | Drainwire Construction n x D |
|------|--------------------|---------------------|--------------|-------------------|--------------------|---------------|------------------------------|
| Tape | Aluminum/Polyester | Beldfoil®           | 100 %        | 9 / 12 µm         | TC - Tinned Copper | 20            | 7x28 mm                      |

#### Outer Jacket Material

| Material                    | Color             | Nominal Diameter | Nominal Wall Thickness |
|-----------------------------|-------------------|------------------|------------------------|
| LSZH / FRNC (UV stabilised) | Chrome (RAL 7037) | 6.0 mm           | 0.89 mm                |
|                             |                   | 6.0 mm           |                        |

### Electrical Characteristics

#### Conductor DCR

| Nominal Conductor DCR |
|-----------------------|
| 21.3 Ohm/km           |

#### Capacitance

| Nom. Capacitance Conductor to Conductor | Nom. Capacitance Conductor to Other Conductor to Shield |
|---|---|
| 98 pF/m                                 | 144 pF/m  |

#### Inductance

**Nominal Inductance**

0.591 µH/m

**Impedance****Nominal Characteristic Impedance**

57 Ohm

**Current****Element** **Max. Recommended Current [A]**

Conductor 5.2 Amps per conductor @ 25C

**Voltage****Voltage Rating [V]**

300 V

**Temperature Range**

Operating Temp Range (Flexible Install): -15°C To +80°C

Operating Temp Range (Fixed Install): -45°C To +80°C

**Mechanical Characteristics**

Oil Resistance: IEC 60811-404

Bulk Cable Weight: 27 lbs/1000ft

Max Recommended Pulling Tension: 280 N

Min Bend Radius/Minor Axis: 60 mm

**Standards**

CPR Euroclass: B2ca-s1,d1,a1

CENELEC Compliance: EN 50290-2-27

**Applicable Environmental and Other Programs**

EU Directive 2000/53/EC (ELV): Yes

EU Directive 2003/96/EC (BFR): Yes

EU Directive 2011/65/EU (ROHS II): Yes

EU Directive 2012/19/EU (WEEE): Yes

EU Directive Compliance: EU Directive 2003/11/EC (BFR)

EU CE Mark: Yes

EU RoHS Compliance Date (yyyy-mm-dd): 2005-01-01

**Suitability**

Suitability - Indoor: Yes

Suitability - Non-Halogenated: Yes

**Flammability, LS0H, Toxicity Testing**

ISO/IEC Flammability: IEC 60332-3-24

Amount of Halogen acc. to IEC 60754-1 &amp; EN50267-1: Zero

**Plenum/Non-Plenum**

Plenum (Y/N): No

**Part Number****Variants**

| Item #        | Color  |
|---------------|--------|
| 8760NH.01500  | Black  |
| 8760NH.001000 | Chrome |
| 8760NH.00152  | Chrome |
| 8760NH.00305  | Chrome |
| 8760NH.00500  | Chrome |

Footnote: C - CRATE REEL PUT-UP.

**History**

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