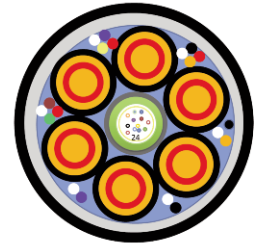
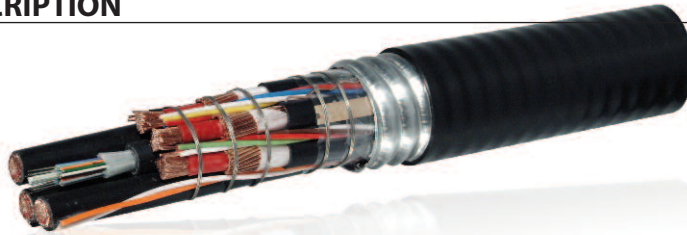




# **EUCAHYBRID 114-6x2AWG6LI-24SM-1xCP** *“low inductance”*

## **PRODUCT DESCRIPTION**



1-1/4" hybrid fiber optic cable with 48V energy feeder in a corrugated aluminum shielding with UV resistant PE jacket. Equipped with 1 communication pair (dry contacts). The coaxial construction of copper lines reduces the inductance in comparison with usual pairs of copper wires.

## **TECHNICAL FEATURES**

### **CONSTRUCTION**

#### **Copper feed lines**

|   |                              |
|---|------------------------------|
| • Quantity                                  | 6 coaxial pairs              |
| • Conductor material                        | electrolytic copper          |
| • Electrical section of the inner conductor | 13,3 mm <sup>2</sup> (~6AWG) |
| • Electrical section of the outer conductor | 13,3 mm <sup>2</sup> (~6AWG) |

#### **Dry contact**

|                              |                     |
|------------------------------|---------------------|
| • Quantity of wires          | 2 wires (1 pair)    |
| • Conductor material         | electrolytic copper |
| • Copper diameter            | 0,8 mm              |
| • Outer diameter (each wire) | 1,6 mm              |

#### **Fiber Optic cable**

|                   |               |
|-------------------|---------------|
| • Quantity        | 1             |
| • Fibers quantity | 24            |
| • Fiber type      | Single Mode   |
| • Fiber size      | 9/125/900 μm  |
| • Reinforcement   | Aramide fiber |

#### **Ripcord**

|            |            |
|------------|------------|
| • Quantity | 1          |
| • Material | Steel Wire |
| • Diameter | 0,8 mm     |

#### **Outer shield**

|            |                          |
|------------|--------------------------|
| • Material | Corrugated aluminum tube |
| • Diameter | 36 mm                    |

#### **Jacket**

|             |                    |
|-------------|--------------------|
| • Material  | Black Polyethylene |
| • Thickness | 1,5 mm             |
| • Diameter  | 39 mm              |



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## **MECHANICAL**

|                                 |                         |
|---------------------------------|-------------------------|
| • Minimum bending radius        | 360 mm                  |
| • Maximum pulling strength      | 150 daN                 |
| • Recommended temperature range |                         |
| Storage                         | -30 °C - +70 °C         |
| Installation                    | -20 °C - +60 °C         |
| Operation                       | -30 °C - +70 °C         |
| • Maximum Hanger spacing        | 1,0 m                   |
| • Approx. weight                | 2515 kg/km (1,69 lb/ft) |

## **ELECTRICAL**

|                      |                       |
|----------------------|-----------------------|
| • Main conductors    |                       |
| Resistance           | 1,34 Ohm/km at 20 °C  |
| Operating DC voltage | 48 V                  |
| • Dry contact wires  |                       |
| Resistance           | 21,43 Ohm/km at 20 °C |
| Maximum DC voltage   | 600 V                 |

## **OPTICAL**

|                               |                      |
|-------------------------------|----------------------|
| • Fiber type                  | G657A1               |
| • Fiber wave length           | 1310 & 1550 nm       |
| • Max attenuation             |                      |
|                               | 1310 nm: ≤0,40 dB/km |
|                               | 1550 nm: ≤0,25 dB/km |
| • Core diameter               | 9 µm                 |
| • Cladding diameter           | 125 µm               |
| • Coating diameter            | 250 µm               |
| • Tight buffer fiber diameter | 900 µm               |

## **Norms / Certifications**

Jacket: EN 50289-4-17 / ISO 4892-2, IEC 60811

Wire insulation: IEC 60811

Fiber: IEC 60794-1, GR20 core

RoHS 2011/65/EU compliant

Kabelwerk Eupen AG has been certified ISO 9001:2008 and ISO14001:2004 for the development, manufacture and supply of cables, wires and related products.