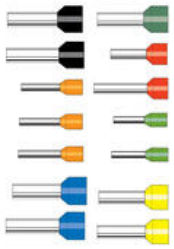
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# INSULATED BOOTLACE FERRULES FOR DUAL CABLES

3010.0
HZL 1.0 HL, 1.0 x 12mm, Dual Ferrule, Yellow

- Funnel feed-in made of polypropylene
- Heat resistant up to 120 °C
- For wires from 0.5…150 mm²
- Material: E-Cu/A-Cu, galvanically tin-plated



### PRODUCT DESCRIPTION

These insulated bootlace ferrules for dual cables are expertly engineered to terminate two separate conductors in a single ferrule, thanks to a specially shaped polypropylene collar that allows funnel-style wire entry. Designed to accommodate twin conductors ranging from 0.5 mm² up to 16 mm², these connectors provide a tin-plated copper alloy tube that is heat resistant up to 120 °C. The ferrule's construction incorporates E-Cu/A-Cu conductors and galvanic tin plating for excellent corrosion resistance and electrical conductivity. Colour-coding and compliance with multiple standards, ensure correct wire sizing and global applicability. Available tube lengths span 8 to 25 mm, with full dimensions and strip lengths specified for precise, reliable installation.
In practical use, these ferrules greatly improve electrical installation quality within industrial control panels, sensor systems, safety interlocks, and motor drives. They prevent stray copper strands from causing shorts, promote secure and repeatable screw-terminal connections, and protect conductors during maintenance or component swaps. Their twin-wire capability is especially useful in applications involving paired conductors like sensor feedback lines or dual-phase power feeds, reducing connector count and improving terminal organisation. The polypropylene collar not only aids in wire insertion but also delivers mechanical strain relief and vibration resistance, critical in machinery and automation environments. In summary, these ferrules offer a compact, code-compliant, and reliable solution for terminating dual conductors efficiently and safely.

# TECHNICAL DATA

## GENERAL DATA

| | |
|---|---|
| **Colour** | Yellow |
| **Cross section max** | 1 mm² |
| **Rated wire cross section to (AWG)** | 17 |
| **Standard** | German Standard |

## DIMENSIONS

| | |
|---|---|
| **Length** | 19 mm |
| **Length of tube** | 12 mm |
| **Stripping length** | 16 mm |
| **Thickness of collar** | 0.3 mm |

| | |
|---|---|
| **Thickness of tube** | 0.15 mm |
| **Diameter of tube** | 2 mm |

## MATERIALS

| | |
|---|---|
| **Conductor tube** | Copper alloy |
| **Contact surface** | Galvanic tin-plated, shiny |
| **Plastic collar** | Polypropylene-homopolymer |
| **Operating temperature from** | -5 °C |
| **Operating temperature to** | 105 °C |

## APPROVALS

| | |
|---|---|
| **DIN 46228-4:1990** | Yes |
| **DIN 46228-1:1992** | No |

## ADDITIONAL DATA

| | |
|---|---|
| **Tariff code** | 85369010 |
| **Country of origin** | DE |
| **Weight** | 0.21 g |
| **Pack size** | 500 |

