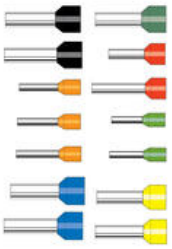
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INSULATED BOOTLACE FERRULES FOR DUAL CABLES

3013.0
HZL 1.5 HL, 1.5 x 12mm, Dual Ferrule, Red



- 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	Red
Cross section max	1.5 mm²
Rated wire cross section to (AWG)	16
Standard	German Standard

DIMENSIONS

Length	20 mm
Length of tube	12 mm
Stripping length	15 mm
Thickness of collar	0.3 mm

Thickness of tube	0.15 mm
Diameter of tube	2.2 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	0.23 g
Pack size	500

