HC-D 15-I-CT-M - Contact insert

1584376

https://www.phoenixcontact.com/us/products/1584376

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Contact insert, number of positions: 15+PE, size: D15, number of connections per position: 1, Pin, Crimp connection, 250 V, 10 A, 0.14 mm^2 ... 2.5 mm^2

Your advantages

- Can be used in rail vehicles, satisfy DIN EN 45545-2 with requirement sets R22, R23, and R24 in hazard levels HL1, HL2, and HL3.

Commercial Data

Item number	1584376
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	BF61
Product Key	BF7ABE
Catalog Page	Page 523 (C-2-2019)
GTIN	4046356142632
Weight per Piece (including packing)	26.04 g
Weight per Piece (excluding packing)	25.9 g
Customs tariff number	85389099
Country of origin	CN

Technical Data

Notes

General	For HC-D15 housing, crimp contacts CK1,6-ED (crimp contacts not included in scope of supply)
General	Connectors may be operated only when there is no load/voltage.
General	It is imperative that guide pins (HC-CST) and sockets (HC-CBU) are used to prevent tip collision due to misalignment.

Mounting

Assembly instructions	To ensure correct use, installation in housing with IP54 protection or better is required

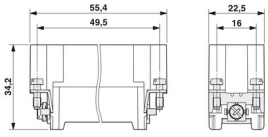
Product properties

Type	D15
Product type	Contact insert with a fixed no. of positions
Number of positions	15
Note number of positions	15+PE
Connection profile	15+PE
Number of connections per position	1
Contact type	turned
	rolled
Series	HC-D

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Dimensions

Dimensional drawing	
Width	22.5 mm
Height	34.2 mm
Length	55.4 mm
Drill hole distance, horizontal	49.5 mm
Drill hole distance, vertical	16 mm

Mechanical characteristics

Contact diameter	1.6 mm

Connection data

Connection technology

Connection technology	Crimp connection
Number of connections per position	1
Connection in acc. with standard	IEC / EN

Conductor connection

Conductor cross section	0.14 mm² ... 2.5 mm²
Connection cross section AWG	26 ... 14
Tightening torque	0.7 Nm ... 1 Nm (PE connection)
	0.5 Nm ... 0.8 Nm (Mounting screws for mounting in the HEAVYCON housing)
Stripping length of the individual wire	8 mm (0.14 mm² ... 1.5 mm²)
	6 mm (2.5 mm²)

Electrical properties

Rated voltage (III/3)	250 V
Rated surge voltage	4 kV
Rated current	10 A
SCCR	5 kA (UL 2237)

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 500

Material specifications

Flammability rating according to UL 94	V0
Contact material	Copper alloy
Contact surface material	Ag (alternatively Au)
Contact carrier material	PC
Standards/regulations	PC: Fire protection in rail vehicles - requirement sets R22, R23, and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-40 °C ... 125 °C (including heating up of contacts)

Standards and regulations

Constructional and testing regulations	DIN VDE 0627/86
	DIN VDE 0110/02.79
	DIN VDE 0110-1/04.97
	IEC 60664-1, DIN IEC 60512
	IEC 60352
Tests	DIN VDE 0627/86
	DIN VDE 0110/02.79
	DIN VDE 0110-1/04.97
	IEC 60664-1, DIN IEC 60512

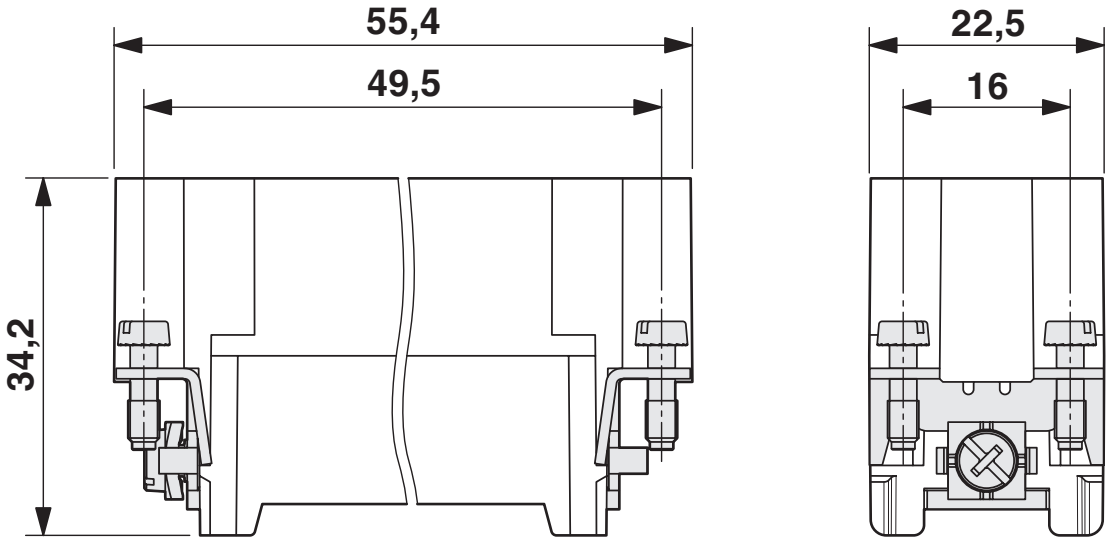
	IEC 60352

Testing

Standards/regulations	PC: Fire protection in rail vehicles - requirement sets R22, R23, and R24 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)

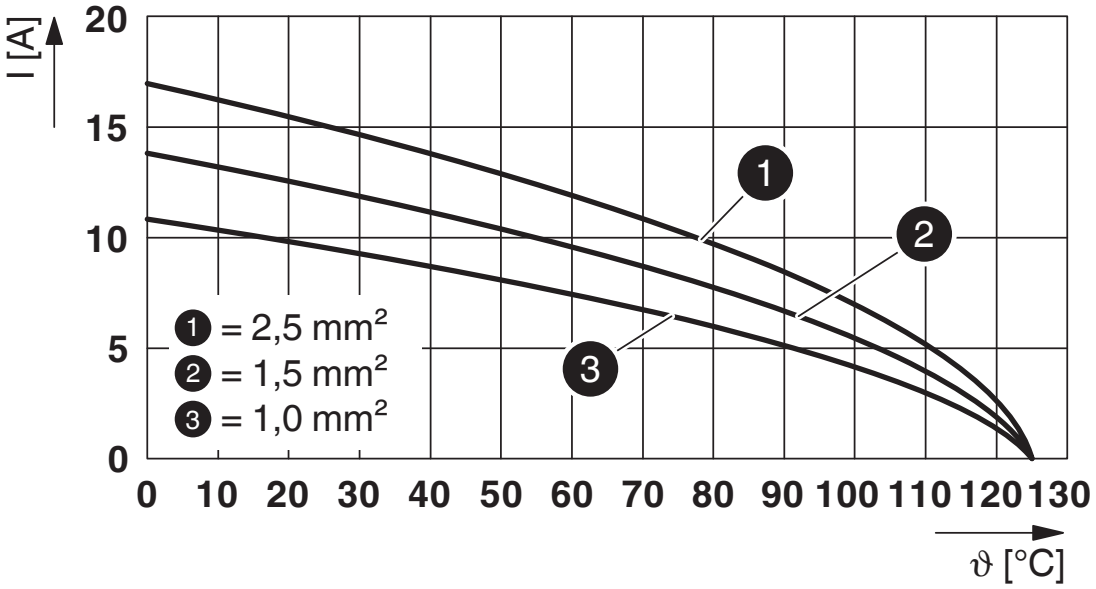
Drawings

Dimensional drawing



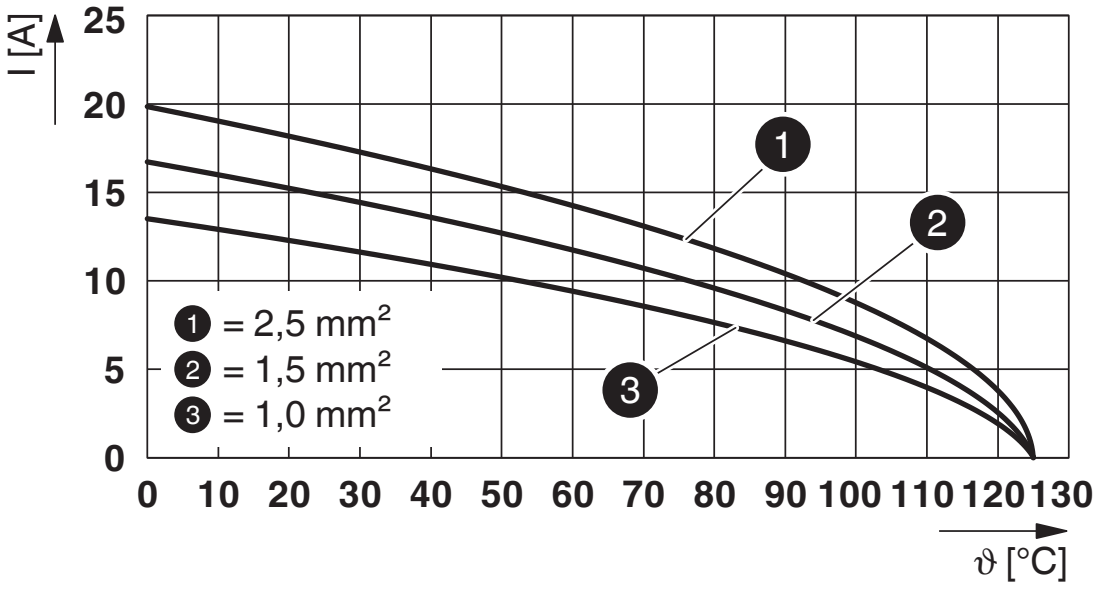
Male insert

Diagram



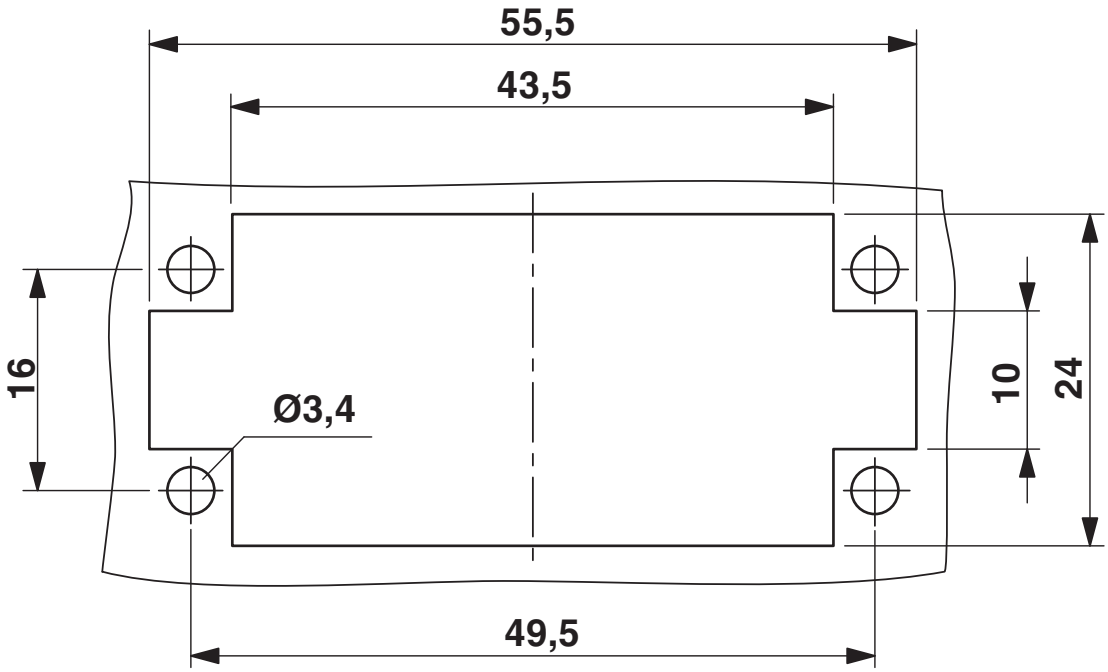
Derating diagram rolled contacts

Diagram



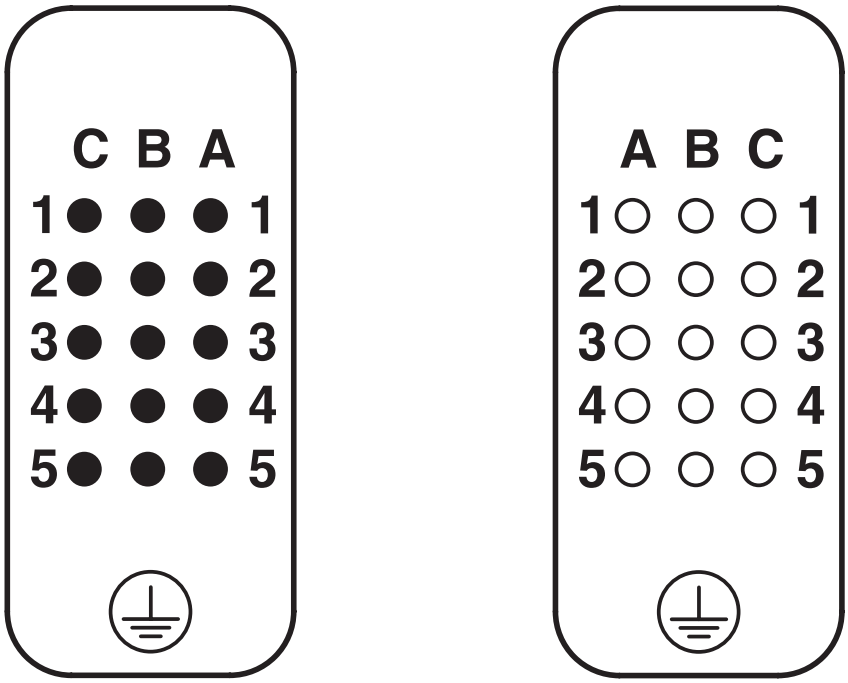
Derating diagram turned contacts

Dimensional drawing



Mounting cutout when used without housing

Schematic diagram



Connector pin assignment connection side: Left pin; right socket

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1584376

CSA
Approval ID: 13631

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	600 V	8 A	- 14	-

UL Recognized
Approval ID: FILE E 118976

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	600 V	10 A	-	-

EAC
Approval ID: RU C-DE.AI30.B.01102

UL Recognized
Approval ID: E468743

	Nominal Voltage U_N	Nominal Current I_N	Cross Section AWG	Cross Section mm^2
	600 V	10 A	-	-

EAC
Approval ID: RU C-DE.BL08.B.00511

Classifications

ECLASS

ECLASS-11.0	27440205
ECLASS-12.0	27440205
ECLASS-13.0	27440205

ETIM

ETIM 8.0	EC000438

UNSPSC

UNSPSC 21.0	39121500

Environmental Product Compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Accessories

HC-CB - Coding bolt

1772722

https://www.phoenixcontact.com/us/products/1772722



Coding pin, prevents mismating of up to six connectors with an identical number of positions

HC-CST - Coding element

1676857

https://www.phoenixcontact.com/us/products/1676857



Coding peg for coding up to 16 connectors

HC-CBU - Coding element

1676860

https://www.phoenixcontact.com/us/products/1676860



Coding socket for coding up to 16 connectors

HC-A-PE-PT - Adapter

1054712

https://www.phoenixcontact.com/us/products/1054712



PE adapter with PT connection, for 1 PE connection, for HC-A10 / HC-A16 / HC-D15 / HC-D25 series contact inserts

HC-A-PES - Screw

1584868

https://www.phoenixcontact.com/us/products/1584868



PE screw for contact inserts of A series

UNIFOX MT-CK 1.6/2.5 - Assembly tool

1089092

https://www.phoenixcontact.com/us/products/1089092



Assembly tool, for CK 1.6... crimp contacts for small conductor cross sections

UNIFOX RT-CK 1.6 - Contact removal tool

1072069

https://www.phoenixcontact.com/us/products/1072069



Contact removal tool, for turned and rolled CK- 1.6-... contacts

CK1,6-ED-0,37ST AG - Crimp contact

1663336

https://www.phoenixcontact.com/us/products/1663336



Crimp contact, contact diameter: 1.6 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 0.14 mm^2 ... 0.37 mm^2, AWG 26 ... 22

CK1,6-ED-0,50ST AG - Crimp contact

1663349

https://www.phoenixcontact.com/us/products/1663349



Crimp contact, contact diameter: 1.6 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 0.5 mm^2 ... 0.5 mm^2, AWG 20

CK1,6-ED-0,75ST AG - Crimp contact

1663352

https://www.phoenixcontact.com/us/products/1663352



Crimp contact, contact diameter: 1.6 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 0.75 mm^2 ... 0.75 mm^2, AWG 18

CK1,6-ED-1,00ST AG - Crimp contact

1663365

https://www.phoenixcontact.com/us/products/1663365



Crimp contact, contact diameter: 1.6 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 1 mm^2 ... 1 mm^2, AWG 18

CK1,6-ED-1,50ST AG - Crimp contact

1663378

https://www.phoenixcontact.com/us/products/1663378



Crimp contact, contact diameter: 1.6 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 1.5 mm^2 ... 1.5 mm^2, AWG 16

CK1,6-ED-2,50ST AG - Crimp contact

1663381

https://www.phoenixcontact.com/us/products/1663381



Crimp contact, contact diameter: 1.6 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 2.5 mm^2 ... 2.5 mm^2, AWG 14

CK1,6-ED-ST-POF - Male contact

1884995

https://www.phoenixcontact.com/us/products/1884995



POF fiber optic pin contact, turned, for contact carriers (HC-DD...I-CT.../ HC-M-12-CT-.../ HC-M-17-CT-...) of CK1,6-ED... contacts

CK1,6-ED-0,37M AG - Crimp contact

1266193

https://www.phoenixcontact.com/us/products/1266193



Crimp contact, contact diameter: 1.6 mm, turned, Pin, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 0.14 mm^2 ... 0.34 mm^2, AWG 26 ... 22

CK1,6-ED-0,50M AG - Crimp contact

1266195

https://www.phoenixcontact.com/us/products/1266195



Crimp contact, contact diameter: 1.6 mm, turned, Pin, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 0.5 mm^2 ... 0.5 mm^2, AWG 20

CK1,6-ED-1,50M AG - Crimp contact

1266245

https://www.phoenixcontact.com/us/products/1266245



Crimp contact, contact diameter: 1.6 mm, turned, Pin, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 1.5 mm^2 ... 1.5 mm^2, AWG 16

CK1,6-ED-0,75M AG - Crimp contact

1266450

https://www.phoenixcontact.com/us/products/1266450



Crimp contact, contact diameter: 1.6 mm, turned, Pin, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 0.75 mm^2 ... 0.75 mm^2, AWG 18

CK1,6-ED-1,00M AG - Crimp contact

1266244

https://www.phoenixcontact.com/us/products/1266244



Crimp contact, contact diameter: 1.6 mm, turned, Pin, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 1 mm^2 ... 1 mm^2, AWG 18

CK1,6-ED-2,50M AG - Crimp contact

1266247

https://www.phoenixcontact.com/us/products/1266247



Crimp contact, contact diameter: 1.6 mm, turned, Pin, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 2.5 mm^2 ... 2.5 mm^2, AWG 14

CK1,6-ED-0,37ST AU - Crimp contact

1674901

https://www.phoenixcontact.com/us/products/1674901



Crimp contact, contact diameter: 1.6 mm, turned, Pin, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 0.14 mm^2 ... 0.37 mm^2, AWG 22 ... 24

CK1,6-ED-0,50ST AU - Crimp contact

1672453

https://www.phoenixcontact.com/us/products/1672453



Crimp contact, contact diameter: 1.6 mm, turned, Pin, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 0.5 mm^2 ... 0.5 mm^2, AWG 20

CK1,6-ED-0,75ST AU - Crimp contact

1674914

https://www.phoenixcontact.com/us/products/1674914



Crimp contact, contact diameter: 1.6 mm, turned, Pin, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 0.75 mm^2 ... 0.75 mm^2, AWG 18

CK1,6-ED-1,00ST AU - Crimp contact

1674888

https://www.phoenixcontact.com/us/products/1674888



Crimp contact, contact diameter: 1.6 mm, turned, Pin, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 1 mm^2 ... 1 mm^2, AWG 18

CK1,6-ED-1,50ST AU - Crimp contact

1674875

https://www.phoenixcontact.com/us/products/1674875



Crimp contact, contact diameter: 1.6 mm, turned, Pin, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 1.5 mm^2 ... 1.5 mm^2, AWG 16

CK1,6-ED-2,50ST AU - Crimp contact

1674927

https://www.phoenixcontact.com/us/products/1674927



Crimp contact, contact diameter: 1.6 mm, turned, Pin, contact material: Copper alloy, contact surface: gold-plated, connection cross section: 2.5 mm^2 ... 2.5 mm^2, AWG 14

CK1,6-ER-1,00ST OIC AG - Crimp contact

1004360

https://www.phoenixcontact.com/us/products/1004360



Crimp contact, contact diameter: 1.6 mm, rolled, Pin, contact material: Cu alloy, nickel-plated, contact surface: silver-plated, connection cross section: 0.34 mm^2 ... 1 mm^2, AWG 22 ... 17

CK1,6-ER-2,50ST OIC AG - Crimp contact

1004365

https://www.phoenixcontact.com/us/products/1004365



Crimp contact, contact diameter: 1.6 mm, rolled, Pin, contact material: Cu alloy, nickel-plated, contact surface: silver-plated, connection cross section: 1.5 mm^2 ... 2.5 mm^2, AWG 16 ... 14

CK1,6-BR-1,00ST OIC AG - Crimp contact

1004380

https://www.phoenixcontact.com/us/products/1004380



Crimp contact, contact diameter: 1.6 mm, rolled, Pin, contact material: Cu alloy, nickel-plated, contact surface: silver-plated, connection cross section: 0.34 mm^2 ... 1 mm^2, AWG 22 ... 17, Taped products

CK1,6-BR-2,50ST OIC AG - Crimp contact

1004382

https://www.phoenixcontact.com/us/products/1004382



Crimp contact, contact diameter: 1.6 mm, rolled, Pin, contact material: Cu alloy, nickel-plated, contact surface: silver-plated, connection cross section: 1.5 mm^2 ... 2.5 mm^2, AWG 16 ... 14, Taped products

HC-D 15-I-CT-M - Contact insert

1584376

https://www.phoenixcontact.com/us/products/1584376

HC-D 15-I-CT-F - Contact insert

1584389

https://www.phoenixcontact.com/us/products/1584389



Contact insert, number of positions: 15+PE, size: D15, number of connections per position: 1, Socket, Crimp connection, 250 V, 10 A, 0.14 mm^2 ... 2.5 mm^2

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