HC-K12/ 2-ESTC - Contact insert

1636334

https://www.phoenixcontact.com/us/products/1636334

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Contact insert, number of positions: 12+2+PE, size: B16, power contacts: 12, control contacts: 2, Pin, Crimp connection, 690 V, 40 A, 1.5 mm^2 ... 6 mm^2

Commercial data

Item number	1636334
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	BF61
Product key	BF7ABA
Catalog page	Page 569 (C-2-2019)
GTIN	4046356011471
Weight per piece (including packing)	75.8 g
Weight per piece (excluding packing)	74 g
Customs tariff number	85366990
Country of origin	CN

Technical data

Notes

General	For HEAVYCON ADVANCE and HEAVYCON housing of type B16/B32, power contacts: CK 4,0-ED, control contacts: CK 1,6-ED (crimp contacts not supplied as standard)
General	Connectors may be operated only when there is no load/voltage.

Mounting

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

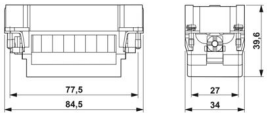
Product properties

Product type	Contact insert with a fixed no. of positions
Series	HC-K
Type	B16
	B32
Number of positions	14
Connection profile	12+2+PE
Contact numbering	1 - 12 (power contacts)
	1 - 2 (control contacts)
No. of power contacts	12
No. of control contacts	2
Contact material type	turned

Insulation characteristics

Overvoltage category	III
Degree of pollution	3

Dimensions

Dimensional drawing	
Width	34 mm
Height	39.6 mm
Length	84.5 mm
Drill hole distance, horizontal	77.5 mm

Mechanical characteristics

Contact diameter	4 mm

Connection data

Connection technology

Connection technology	Crimp connection (power contacts)
	Crimp connection (control contacts)

Conductor connection

Conductor cross section	1.5 mm² ... 6 mm² (power contacts)
	0.14 mm² ... 2.5 mm² (control contacts)
Connection cross section AWG	16 ... 10 (power contacts)
	26 ... 14 (control contacts)
Tightening torque	0.8 Nm ... 1.2 Nm (PE connection)
	0.5 Nm ... 0.8 Nm (Mounting screws for mounting in the HEAVYCON housing)
Stripping length of the individual wire	9 mm (Power 1.5 ... 2.5 mm²)
	8 mm (Control contacts, with a cross section of 0.14 mm² ... 1.5 mm²)
	9.5 mm (Power 4 ... 6 mm²)
	6 mm (Signal 2.5 mm²)

Electrical properties

Rated voltage (III/3)	690 V (power contacts)
	250 V (control contacts)
Rated surge voltage	8 kV (power contacts)
	4 kV (control contacts)
Rated current	40 A (power contacts)
	10 A (control contacts)

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	≥ 500

Material specifications

Flammability rating according to UL 94	V0
Contact material	Cu alloy
Contact carrier material	PC
Material of contact surface, power contact	Ag
Material of contact surface, control contact	Ag (alternatively Au)
Standards/regulations	PC: Fire protection in rail vehicles - requirement set R22 acc. to DIN EN 45545-2 (Risk level HL1 - HL2)
	PC: Fire protection in rail vehicles - requirement set R23 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)

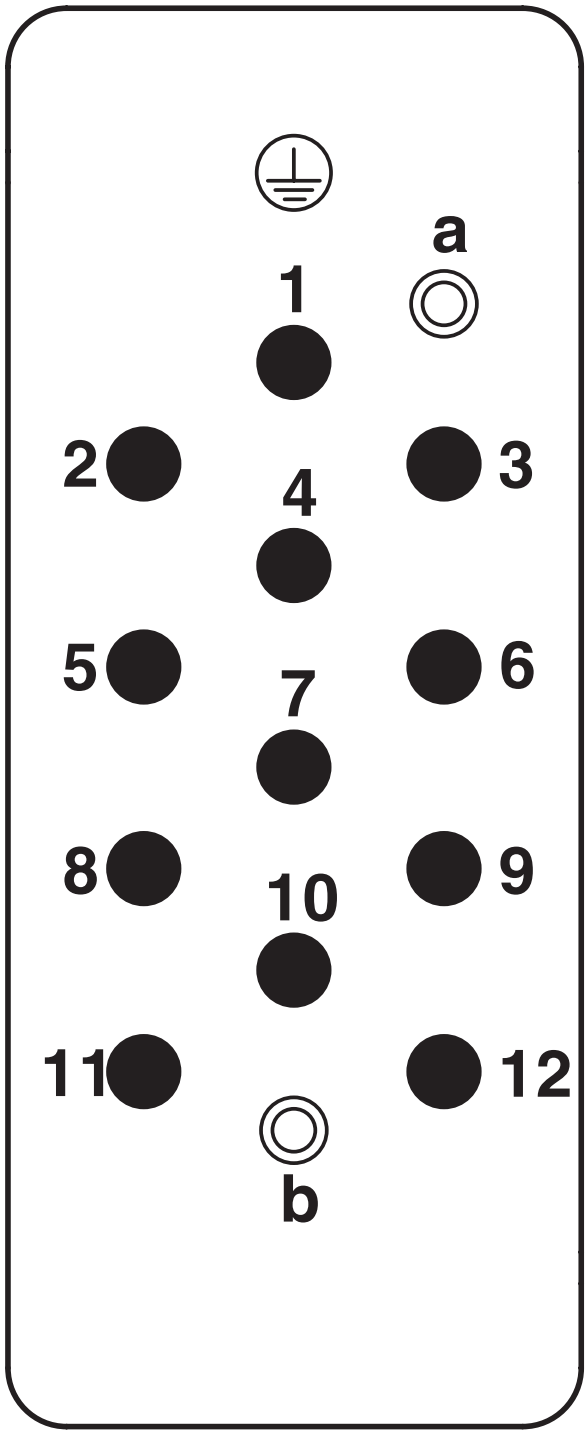
Standards and regulations

Testing

Standards/regulations	PC: Fire protection in rail vehicles - requirement set R22 acc. to DIN EN 45545-2 (Risk level HL1 - HL2)
	PC: Fire protection in rail vehicles - requirement set R23 acc. to DIN EN 45545-2 (Risk level HL1 - HL3)

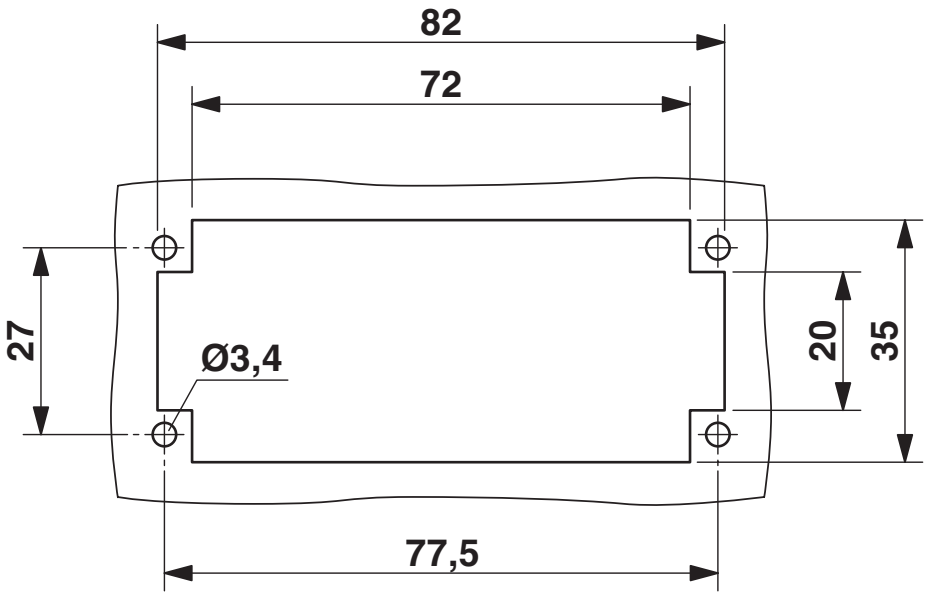
Drawings

Schematic diagram



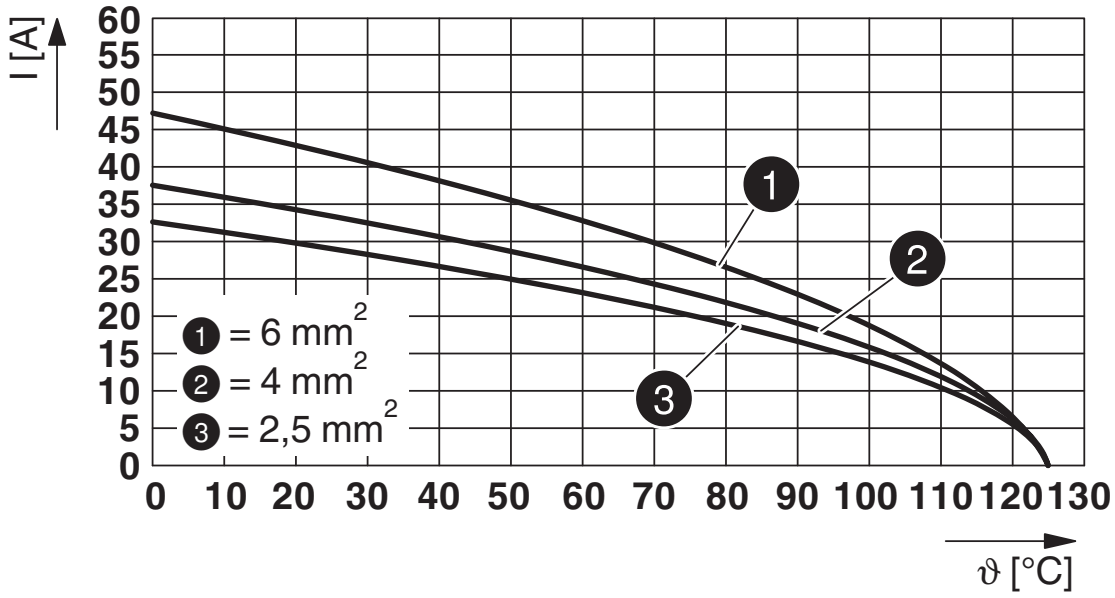
Connector pin assignment, connection side

Dimensional drawing



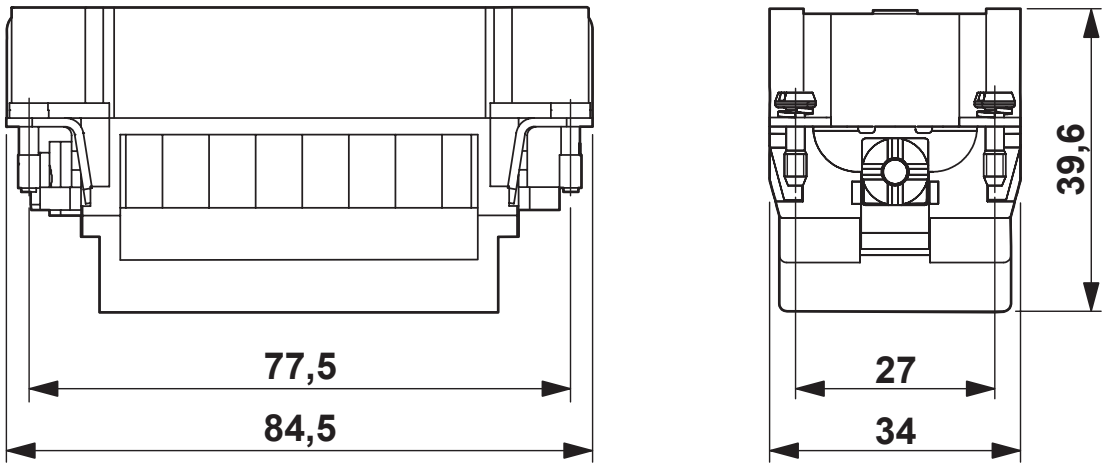
Mounting cutout when used without housing

Diagram



Derating diagram

Dimensional drawing



Dimensional drawing

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1636334

UL Recognized
Approval ID: E118976

	Nominal voltage U_N	Nominal current I_N	Cross section AWG	Cross section mm^2
Power	600 V	40 A	- 10	-
Control	600 V	10 A	14	-

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 9.0	EC000438

UNSPSC

UNSPSC 21.0	39121500

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%

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

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

CK4,0-ED-1,50ST AG - Crimp contact

1663239

https://www.phoenixcontact.com/us/products/1663239



Crimp contact, contact diameter: 4 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 1.5 mm^2 ... 1.5 mm^2, AWG 16

CK4,0-ED-2,50ST AG - Crimp contact

1663242

https://www.phoenixcontact.com/us/products/1663242



Crimp contact, contact diameter: 4 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 2.5 mm^2 ... 2.5 mm^2, AWG 14

CK4,0-ED-4,00ST AG - Crimp contact

1663255

https://www.phoenixcontact.com/us/products/1663255



Crimp contact, contact diameter: 4 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 4 mm^2 ... 4 mm^2, AWG 12

CK4,0-ED-6,00ST AG - Crimp contact

1663268

https://www.phoenixcontact.com/us/products/1663268



Crimp contact, contact diameter: 4 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 6 mm^2 ... 6 mm^2, AWG 10

CK4,0-ED-10,00ST AG - Crimp contact

1586198

https://www.phoenixcontact.com/us/products/1586198



Crimp contact, contact diameter: 4 mm, turned, Pin, contact material: Copper alloy, contact surface: silver-plated, connection cross section: 10 mm^2 ... 10 mm^2, AWG 8

CK4,0-ED-1,50M AG - Crimp contact

1274097

https://www.phoenixcontact.com/us/products/1274097



Crimp contact, contact diameter: 4 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

CK4,0-ED-2,50M AG - Crimp contact

1274094

https://www.phoenixcontact.com/us/products/1274094



Crimp contact, contact diameter: 4 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

CK4,0-ED-4,00M AG - Crimp contact

1274093

https://www.phoenixcontact.com/us/products/1274093



Crimp contact, contact diameter: 4 mm, turned, Pin, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 4 mm^2 ... 4 mm^2, AWG 12

CK4,0-ED-6,00M AG - Crimp contact

1274092

https://www.phoenixcontact.com/us/products/1274092



Crimp contact, contact diameter: 4 mm, turned, Pin, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 6 mm^2 ... 6 mm^2, AWG 10

CK4,0-ED-10,00M AG - Crimp contact

1274091

https://www.phoenixcontact.com/us/products/1274091



Crimp contact, contact diameter: 4 mm, turned, Pin, contact material: Copper alloy, lead-free, contact surface: silver-plated, connection cross section: 10 mm^2 ... 10 mm^2, AWG 8

HC-K12/ 2-ESTC - Contact insert

1636334

https://www.phoenixcontact.com/us/products/1636334

HC-K12/ 2-EBUC - Contact insert

1636347

https://www.phoenixcontact.com/us/products/1636347



Contact insert, number of positions: 12+2+PE, size: B16, power contacts: 12, control contacts: 2, Socket, Crimp connection, 690 V, 40 A, 1.5 mm^2 ... 6 mm^2

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

HC-K12/ 2-ESTC - Contact insert

1636334

https://www.phoenixcontact.com/us/products/1636334

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

UNIFOX RT-CK 4.0 - Contact removal tool

1072064

https://www.phoenixcontact.com/us/products/1072064



Contact removal tool, for rotated CK-4,0-... contacts

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