3212691

https://www.phoenixcontact.com/us/products/3212691



Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Plug, nom. voltage: 500 V, nominal current: 17.5 A, number of connections: 1, number of positions: 1, connection method: Push-in connection, 1 level, Rated cross section:  $1.5~\text{mm}^2$ , cross section:  $0.14~\text{mm}^2$  -  $1.5~\text{mm}^2$ , color: blue

### Product description

Connector element center, left housing with engagement pin, right opened without cover

### Your advantages

- · Large-surface labeling option
- · The Push-in technology COMBI plugs for self-assembly provide solutions that users can implement themselves
- · Tested for railway applications

#### Commercial data

Item number	3212691
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	BE22
Product key	BE2244
Catalog page	Page 285 (C-1-2019)
GTIN	4046356565837
Weight per piece (including packing)	1.899 g
Weight per piece (excluding packing)	1.899 g
Customs tariff number	85366990
Country of origin	PL



https://www.phoenixcontact.com/us/products/3212691



### Technical data

### Product properties

Product type	Terminal plug	
Area of application	Railway industry	
	Machine building	
	Plant engineering	
Number of positions	1	
Pitch	3.5 mm	
Number of connections	1	
Number of rows	1	
Туре	other	
Potentials	1	
Insulation characteristics		
Overvoltage category	III	
Degree of pollution	3	

### Electrical properties

Rated surge voltage	6 kV
Maximum power dissipation for nominal condition	0.56 W

#### Connection data

Number of connections per level	1
Nominal cross section	1.5 mm²

#### 1 level

Stripping length	8 mm 10 mm
Internal cylindrical gage	A1 / B1
Connection in acc. with standard	IEC 61984
Conductor cross section rigid	0.14 mm² 1.5 mm²
Cross section AWG	26 16 (converted acc. to IEC)
Conductor cross section flexible	0.14 mm² 1.5 mm²
Conductor cross section, flexible [AWG]	26 16 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.14 mm² 1.5 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	0.14 mm² 1 mm²
Nominal current	17.5 A (observe derating)
Maximum load current	17.5 A (with 1.5 mm² conductor cross section)
Nominal voltage	500 V
Nominal cross section	1.5 mm <sup>2</sup>

#### 1 level Connection cross sections directly pluggable

Conductor cross section rigid	0.25 mm² 1.5 mm²
Conductor cross-section flexible (ferrule without plastic sleeve)	0.34 mm² 1.5 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	0.34 mm² 1 mm²



https://www.phoenixcontact.com/us/products/3212691



#### **Dimensions**

Width	3.5 mm
Height	16.5 mm
Depth	31.3 mm
Pitch	3.5 mm

### Material specifications

Color	blue
Flammability rating according to UL 94	V0
Insulating material group	I
Insulating material	PA
Static insulating material application in cold	-60 °C
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	130 °C
Relative insulation material temperature index (Elec., UL 746 B)	130 °C
Fire protection for rail vehicles (DIN EN 45545-2) R22	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R23	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R24	HL 1 - HL 3
Fire protection for rail vehicles (DIN EN 45545-2) R26	HL 1 - HL 3
Calorimetric heat release NFPA 130 (ASTM E 1354)	28 MJ/kg
Surface flammability NFPA 130 (ASTM E 162)	passed
Specific optical density of smoke NFPA 130 (ASTM E 662)	passed
Smoke gas toxicity NFPA 130 (SMP 800C)	passed

### Mechanical properties

#### Mechanical data

Open side panel	Yes
-----------------	-----

### Environmental and real-life conditions

#### Ambient conditions

Ambient temperature (operation)	-60 °C (max. operating temperature see derating curve)
Ambient temperature (storage/transport)	-25 °C 60 °C (for a short time, no longer than 24 h, -60°C to +70°C)
Ambient temperature (assembly)	-5 °C 70 °C
Ambient temperature (actuation)	-5 °C 70 °C
Permissible humidity (operation)	20 % 90 %
Permissible humidity (storage/transport)	30 % 70 %

### Standards and regulations

Connection in acc. with standard	IEC 61984

### Mounting

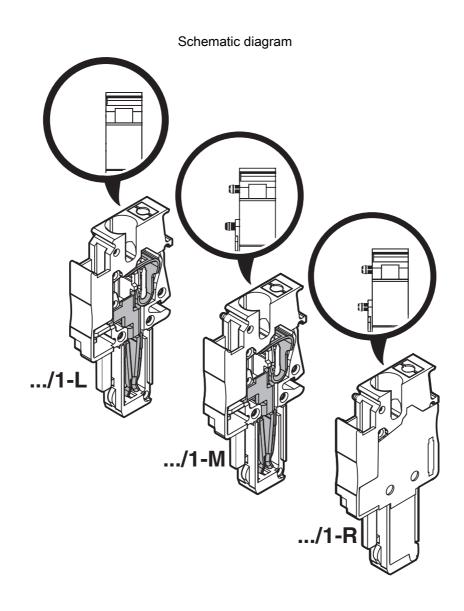
Assembly note	Use of a parallel pressing tool is recommended for easy latching
	of the COMBI connector and coupling elements for self-assembly

3212691

https://www.phoenixcontact.com/us/products/3212691



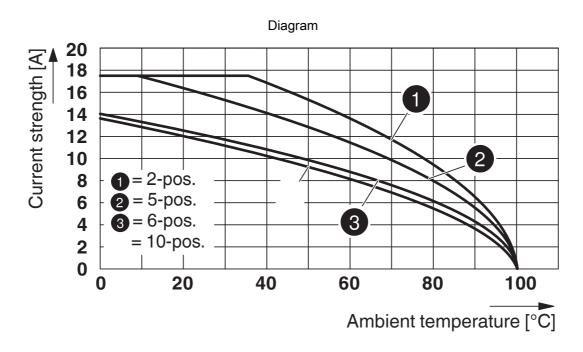
### Drawings





https://www.phoenixcontact.com/us/products/3212691





Circuit diagram





https://www.phoenixcontact.com/us/products/3212691



### **Approvals**

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/3212691

#### אמ

Approval ID: TAE00003JE

CSA Approval ID: 2030668				
	Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
Use group B				
	300 V	15 A	26 - 14	-
Use group C				
	300 V	15 A	26 - 14	-
Use group D				
	600 V	5 A	26 - 14	-

CB scheme	IECEE CB Scheme Approval ID: DE1-65179				
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
		500 V	-	-	0.14 - 1.5

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

cULus Recognized Approval ID: E60425				
	Nominal voltage $U_N$	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
Use group B				
	300 V	15 A	26 - 14	-
Use group C				
	300 V	15 A	26 - 14	-
Use group D				
	600 V	5 A	26 - 14	-

Lloyds Register	LR
	Approval ID: LR2371832TA



NK

Approval ID: 14ME0912



https://www.phoenixcontact.com/us/products/3212691





BV

Approval ID: 39979/B0 BV

<b>₩</b> DE	VDE Gutachten mit Fertigungsüberwachung Approval ID: 40034766				
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
		500 V	-	-	-



https://www.phoenixcontact.com/us/products/3212691



### Classifications

UNSPSC 21.0

#### **ECLASS**

	ECLASS-11.0	27141151	
	ECLASS-12.0	27141151	
	ECLASS-13.0	27250306	
ETIM			
	ETIM 9.0	EC002021	
UNS	SPSC		

39121400



https://www.phoenixcontact.com/us/products/3212691



### Environmental product compliance

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%



https://www.phoenixcontact.com/us/products/3212691



#### Accessories

PR 1,5/S - Latching

3212882

https://www.phoenixcontact.com/us/products/3212882



Latching, width: 3.3 mm, height: 28.9 mm, number of positions: 1, color: orange

#### PR 1,5/S/2 - Latching

3212895

https://www.phoenixcontact.com/us/products/3212895



Latching, width: 6.8 mm, height: 28.9 mm, number of positions: 2, color: orange



https://www.phoenixcontact.com/us/products/3212691



#### PRZ 1,5/S - Latching

3212905

https://www.phoenixcontact.com/us/products/3212905



Latching, length: 59 mm, color: orange

#### PH 1,5/S/3 - Cable housing

3212756

https://www.phoenixcontact.com/us/products/3212756



Cable housing, pitch: 10.5 mm, depth: 36.8 mm, width: 10.5 mm, height: 19.9 mm, number of positions: 3, color: gray



https://www.phoenixcontact.com/us/products/3212691



#### PH 1,5/S/4 - Cable housing

3212769

https://www.phoenixcontact.com/us/products/3212769



Cable housing, pitch: 14 mm, depth: 36.8 mm, width: 14 mm, height: 19.9 mm, number of positions: 4, color: gray

#### PH 1,5/S/5 - Cable housing

3212772

https://www.phoenixcontact.com/us/products/3212772



Cable housing, pitch: 17.5 mm, depth: 36.8 mm, width: 17.5 mm, height: 19.9 mm, number of positions: 5, color: gray



https://www.phoenixcontact.com/us/products/3212691



### PH 1,5/S/6 - Cable housing

3212785

https://www.phoenixcontact.com/us/products/3212785



Cable housing, pitch: 21 mm, depth: 36.8 mm, width: 21 mm, height: 19.9 mm, number of positions: 6, color: gray

#### PH 1,5/S/7 - Cable housing

3212798

https://www.phoenixcontact.com/us/products/3212798



Cable housing, pitch: 24.5 mm, depth: 36.8 mm, width: 24.5 mm, height: 19.9 mm, number of positions: 7, color: gray



https://www.phoenixcontact.com/us/products/3212691



### PH 1,5/S/8 - Cable housing

3212808

https://www.phoenixcontact.com/us/products/3212808



Cable housing, pitch: 28 mm, depth: 36.8 mm, width: 28 mm, height: 19.9 mm, number of positions: 8, color: gray

#### PH 1,5/S/9 - Cable housing

3212811

https://www.phoenixcontact.com/us/products/3212811



Cable housing, pitch: 31.5 mm, depth: 36.8 mm, width: 31.5 mm, height: 19.9 mm, number of positions: 9, color: gray



https://www.phoenixcontact.com/us/products/3212691



### PH 1,5/S/10 - Cable housing

3212824

https://www.phoenixcontact.com/us/products/3212824



Cable housing, pitch: 35 mm, depth: 36.8 mm, width: 35 mm, height: 19.9 mm, number of positions: 10, color: gray

#### PH 1,5/S/11 - Cable housing

3212837

https://www.phoenixcontact.com/us/products/3212837



Cable housing, pitch: 38.5 mm, depth: 36.8 mm, width: 38.5 mm, height: 19.9 mm, number of positions: 11, color: gray



https://www.phoenixcontact.com/us/products/3212691



#### PH 1,5/S/12 - Cable housing

3212840

https://www.phoenixcontact.com/us/products/3212840



Cable housing, pitch: 42 mm, depth: 36.8 mm, width: 42 mm, height: 19.9 mm, number of positions: 12, color: gray

#### PH 1,5/S/13 - Cable housing

3212853

https://www.phoenixcontact.com/us/products/3212853



Cable housing, pitch: 45.5 mm, depth: 36.8 mm, width: 45.5 mm, height: 19.9 mm, number of positions: 13, color: gray



https://www.phoenixcontact.com/us/products/3212691



#### PH 1,5/S/14 - Cable housing

3212866

https://www.phoenixcontact.com/us/products/3212866



Cable housing, pitch: 49 mm, depth: 36.8 mm, width: 49 mm, height: 19.9 mm, number of positions: 14, color: gray

#### PH 1,5/S/15 - Cable housing

3212879

https://www.phoenixcontact.com/us/products/3212879



Cable housing, pitch: 52.5 mm, depth: 36.8 mm, width: 52.5 mm, height: 19.9 mm, number of positions: 15, color: gray



https://www.phoenixcontact.com/us/products/3212691



#### AI-S 1 - 8 TQ - Ferrule

1200293

https://www.phoenixcontact.com/us/products/1200293



Ferrule, S-Slimline, sleeve length: 8 mm, color: turquoise

#### PP-H 1,5/S/1-L - Plug

3212659

https://www.phoenixcontact.com/us/products/3212659



Plug, nom. voltage: 500 V, nominal current: 17.5 A, number of connections: 1, number of positions: 1, connection method: Push-in connection, 1 level, Rated cross section: 1.5 mm², cross section: 0.14 mm² - 1.5 mm², color: gray



https://www.phoenixcontact.com/us/products/3212691



#### PP-H 1,5/S/1-L BU - Plug

3212662

https://www.phoenixcontact.com/us/products/3212662



Plug, nom. voltage: 500 V, nominal current: 17.5 A, number of connections: 1, number of positions: 1, connection method: Push-in connection, 1 level, Rated cross section: 1.5 mm², cross section: 0.14 mm² - 1.5 mm², color: blue

### PP-H 1,5/S/1-L GNYE - Plug

3212675

https://www.phoenixcontact.com/us/products/3212675



Plug, nom. voltage: 500 V, nominal current: 17.5 A, number of connections: 1, number of positions: 1, connection method: Push-in connection, 1 level, Rated cross section: 1.5 mm², cross section: 0.14 mm² - 1.5 mm², color: green-yellow



https://www.phoenixcontact.com/us/products/3212691



#### PP-H 1,5/S/1-L RD - Plug

3212696

https://www.phoenixcontact.com/us/products/3212696



Plug, nom. voltage: 500 V, nominal current: 17.5 A, number of connections: 1, number of positions: 1, connection method: Push-in connection, 1 level, Rated cross section: 1.5 mm², cross section: 0.14 mm² - 1.5 mm², color: red

#### PP-H 1,5/S/1-L/P-GN - Plug

1186132

https://www.phoenixcontact.com/us/products/1186132



Plug, nom. voltage: 500 V, nominal current: 17.5 A, number of connections: 1, number of positions: 1, connection method: Push-in connection, 1 level, Rated cross section:  $1.5 \text{ mm}^2$ , cross section:  $0.14 \text{ mm}^2$  -  $1.5 \text{ mm}^2$ , color: gray

3212691

https://www.phoenixcontact.com/us/products/3212691



PP-H 1,5/S/1-M - Plug

3212688

https://www.phoenixcontact.com/us/products/3212688



Plug, nom. voltage: 500 V, nominal current: 17.5 A, number of connections: 1, number of positions: 1, connection method: Push-in connection, 1 level, Rated cross section: 1.5 mm², cross section: 0.14 mm² - 1.5 mm², color: gray

### PP-H 1,5/S/1-M BK - Plug

3212694

https://www.phoenixcontact.com/us/products/3212694



Plug, nom. voltage: 500 V, nominal current: 17.5 A, number of connections: 1, number of positions: 1, connection method: Push-in connection, 1 level, Rated cross section:  $1.5 \text{ mm}^2$ , cross section:  $0.14 \text{ mm}^2$  -  $1.5 \text{ mm}^2$ , color: gray



https://www.phoenixcontact.com/us/products/3212691



#### PP-H 1,5/S/1-M BU - Plug

3212691

https://www.phoenixcontact.com/us/products/3212691



Plug, nom. voltage: 500 V, nominal current: 17.5 A, number of connections: 1, number of positions: 1, connection method: Push-in connection, 1 level, Rated cross section: 1.5 mm², cross section: 0.14 mm² - 1.5 mm², color: blue

### PP-H 1,5/S/1-M GNYE - Plug

3212701

https://www.phoenixcontact.com/us/products/3212701



Plug, nom. voltage: 500 V, nominal current: 17.5 A, number of connections: 1, number of positions: 1, connection method: Push-in connection, 1 level, Rated cross section: 1.5 mm², cross section: 0.14 mm² - 1.5 mm², color: green-yellow



https://www.phoenixcontact.com/us/products/3212691



### PP-H 1,5/S/1-M RD - Plug

3212692

https://www.phoenixcontact.com/us/products/3212692



Plug, nom. voltage: 500 V, nominal current: 17.5 A, number of connections: 1, number of positions: 1, connection method: Push-in connection, 1 level, Rated cross section: 1.5 mm², cross section: 0.14 mm² - 1.5 mm², color: red

### PP-H 1,5/S/1-M/P-GN - Plug

1186129

https://www.phoenixcontact.com/us/products/1186129



Plug, nom. voltage: 500 V, nominal current: 17.5 A, number of connections: 1, number of positions: 1, connection method: Push-in connection, 1 level, Rated cross section:  $1.5 \text{ mm}^2$ , cross section:  $0.14 \text{ mm}^2$  -  $1.5 \text{ mm}^2$ , color: gray

3212691

https://www.phoenixcontact.com/us/products/3212691



#### PP-H 1,5/S/1-R - Plug

3212714

https://www.phoenixcontact.com/us/products/3212714



Plug, nom. voltage: 500 V, nominal current: 17.5 A, number of connections: 1, number of positions: 1, connection method: Push-in connection, 1 level, Rated cross section: 1.5 mm², cross section: 0.14 mm² - 1.5 mm², color: gray

### PP-H 1,5/S/1-R BU - Plug

3212727

https://www.phoenixcontact.com/us/products/3212727



Plug, nom. voltage: 500 V, nominal current: 17.5 A, number of connections: 1, number of positions: 1, connection method: Push-in connection, 1 level, Rated cross section:  $1.5 \text{ mm}^2$ , cross section:  $0.14 \text{ mm}^2$  -  $1.5 \text{ mm}^2$ , color: blue

3212691

https://www.phoenixcontact.com/us/products/3212691



#### PP-H 1,5/S/1-R GNYE - Plug

3212730

https://www.phoenixcontact.com/us/products/3212730



Plug, nom. voltage: 500 V, nominal current: 17.5 A, number of connections: 1, number of positions: 1, connection method: Push-in connection, 1 level, Rated cross section: 1.5 mm², cross section: 0.14 mm² - 1.5 mm², color: green-yellow

### PP-H 1,5/S/1-R RD - Plug

3212695

https://www.phoenixcontact.com/us/products/3212695



Plug, nom. voltage: 500 V, nominal current: 17.5 A, number of connections: 1, number of positions: 1, connection method: Push-in connection, 1 level, Rated cross section: 1.5 mm², cross section: 0.14 mm² - 1.5 mm², color: red

3212691

https://www.phoenixcontact.com/us/products/3212691



### PP-H 1,5/S/1-R/P-GN - Plug

1186127

https://www.phoenixcontact.com/us/products/1186127



Plug, nom. voltage: 500 V, nominal current: 17.5 A, number of connections: 1, number of positions: 1, connection method: Push-in connection, 1 level, Rated cross section: 1.5 mm², cross section: 0.14 mm² - 1.5 mm², color: gray

### ZBF 3,5:UNBEDRUCKT - Zack Marker strip, flat

0829392

https://www.phoenixcontact.com/us/products/0829392



Zack Marker strip, flat, Strip, white, unlabeled, can be labeled with: PLOTMARK, CMS-P1-PLOTTER, mounting type: snapped, for terminal block width: 3.5 mm, lettering field size: 3.5 x 5.2 mm, Number of individual labels: 10



https://www.phoenixcontact.com/us/products/3212691



#### ZBF 3,5 CUS - Zack Marker strip, flat

#### 0829394

https://www.phoenixcontact.com/us/products/0829394



Zack Marker strip, flat, can be ordered: Strip, white, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 3.5 mm, lettering field size: 3.5 x 5.2 mm, Number of individual labels: 10

#### ZBF 3,5,LGS:FORTL.ZAHLEN - Zack Marker strip, flat

#### 0801406

https://www.phoenixcontact.com/us/products/0801406



Zack Marker strip, flat, Strip, white, labeled, printed horizontally: consecutive numbers 1  $\dots$  10, 11  $\dots$  20, etc. up to 91  $\dots$  100, mounting type: snapped, for terminal block width: 3.5 mm, lettering field size: 5.15 x 3.5 mm, Number of individual labels: 10

3212691

https://www.phoenixcontact.com/us/products/3212691



#### ZBF 3,5,QR:FORTL.ZAHLEN - Zack Marker strip, flat

0801407

https://www.phoenixcontact.com/us/products/0801407



Zack Marker strip, flat, Strip, white, labeled, Printed vertically: consecutive numbers 1 ... 10, 11 ... 20, etc. up to 91 ... 100, mounting type: snapped, for terminal block width: 3.5 mm, lettering field size: 5.15 x 3.5 mm, Number of individual labels: 10

#### UCT-TMF 3,5 - Marker for terminal blocks

0829486

https://www.phoenixcontact.com/us/products/0829486



Marker for terminal blocks, Sheet, white, unlabeled, can be labeled with: TOPMARK NEO, TOPMARK LASER, BLUEMARK ID COLOR, BLUEMARK ID, BLUEMARK CLED, THERMOMARK PRIME, THERMOMARK CARD 2.0, THERMOMARK CARD, mounting type: snapped, for terminal block width: 3.5 mm, lettering field size: 2.7 x 4.7 mm, Number of individual labels: 108



https://www.phoenixcontact.com/us/products/3212691



#### UCT-TMF 3,5 CUS - Marker for terminal blocks

#### 0829644

https://www.phoenixcontact.com/us/products/0829644



Marker for terminal blocks, can be ordered: by sheet, white, labeled according to customer specifications, mounting type: snap into flat marker groove, for terminal block width: 3.5 mm, lettering field size: 2.7 x 4.7 mm, Number of individual labels: 108

#### MPS-MT - Test plug

#### 0201744

https://www.phoenixcontact.com/us/products/0201744



Test plug, with solder connection up to 1 mm<sup>2</sup> conductor cross section, number of positions: 1, color: gray



https://www.phoenixcontact.com/us/products/3212691



### MPS-IH WH - Insulating sleeve

0201663

https://www.phoenixcontact.com/us/products/0201663

Insulating sleeve, color: white



#### MPS-IH RD - Insulating sleeve

0201676

https://www.phoenixcontact.com/us/products/0201676

Insulating sleeve, color: red





https://www.phoenixcontact.com/us/products/3212691



### MPS-IH BU - Insulating sleeve

0201689

https://www.phoenixcontact.com/us/products/0201689

Insulating sleeve, color: blue



### MPS-IH YE - Insulating sleeve

0201692

https://www.phoenixcontact.com/us/products/0201692

Insulating sleeve, color: yellow





https://www.phoenixcontact.com/us/products/3212691



#### MPS-IH GN - Insulating sleeve

0201702

https://www.phoenixcontact.com/us/products/0201702

Insulating sleeve, color: green



#### MPS-IH GY - Insulating sleeve

0201728

https://www.phoenixcontact.com/us/products/0201728

Insulating sleeve, color: gray





https://www.phoenixcontact.com/us/products/3212691



#### MPS-IH BK - Insulating sleeve

0201731

https://www.phoenixcontact.com/us/products/0201731

Insulating sleeve, color: black



#### PZ 1,5/S/2 - Strain relief

3212918

https://www.phoenixcontact.com/us/products/3212918



Strain relief, width: 6.8 mm, height: 44.5 mm, number of positions: 2, color: black



https://www.phoenixcontact.com/us/products/3212691



#### SZF 0-0,4X2,5 - Screwdriver

1204504

https://www.phoenixcontact.com/us/products/1204504



Actuation tool, for ST terminal blocks, also suitable for use as a bladed screwdriver, size: 0.4 x 2.5 x 75 mm, 2-component grip, with non-slip grip

#### ST-BW 0 - Actuation tool

1200135

https://www.phoenixcontact.com/us/products/1200135



Actuation tool, for all 1.5 mm<sup>2</sup> spring cages from PT 1,5/S and FT 1,5/S

Phoenix Contact 2024 © - all rights reserved https://www.phoenixcontact.com

Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com