

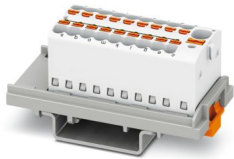
# PTFIX 4/18X1,5-NS35 WH - Distribution block



1047461

<https://www.phoenixcontact.com/nl/products/1047461>

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.



Distribution block, nom. voltage: 500 V, nominal current: 17.5 A, number of connections: 19, connection method: Push-in connection, Load contact, cross section: 0.14 mm<sup>2</sup> - 2.5 mm<sup>2</sup>, Line contact, Rated cross section: 4 mm<sup>2</sup>, cross section: 0.2 mm<sup>2</sup> - 6 mm<sup>2</sup>, mounting type: NS 35/7,5, NS 35/15, color: white

## Your advantages

- Convenient test options, thanks to test openings at every terminal point
- Space-saving potential distribution, thanks to compact micro potential distributors
- Flexible use, thanks to DIN rail and direct mounting
- Space-saving, thanks to the compact design
- Clear arrangement thanks to marking of all terminal points

## Commercial data

Item number	1047461
Packing unit	20 pc
Minimum order quantity	20 pc
Sales key	BEA124
Product key	BEA124
GTIN	4055626665665
Weight per piece (including packing)	23,42 g
Weight per piece (excluding packing)	21,95 g
Customs tariff number	85369010
Country of origin	PL

1047461

<https://www.phoenixcontact.com/nl/products/1047461>

## Technical data

### Notes

#### General

Note	
	The maximum load current of a single clamping unit must not be exceeded.
	For power distribution applications, IEC 60364-4-43:2008; modified + corrigendum Okt. 2008 (DIN VDE 0100-430:2010-10) section 433.2 ff must be observed!

### Product properties

Number of connections	19
Number of rows	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

Service Entrance	yes
Number of connections per level	19
Nominal cross section	1.5 mm <sup>2</sup>
Rated cross section AWG	14

#### Load contact

Connection method	Push-in connection
Stripping length	8 mm ... 10 mm
Internal cylindrical gage	A3
Connection in acc. with standard	IEC 60947-7-1
Conductor cross-section rigid	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Cross section AWG	26 ... 14 (converted acc. to IEC)
Conductor cross-section flexible	0.14 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section, flexible [AWG]	26 ... 14 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Flexible conductor cross-section (ferrule with plastic sleeve)	0.14 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Nominal current	17.5 A
Maximum load current	22 A (with a 2.5 mm <sup>2</sup> conductor cross-section)
Maximum total current	32 A
Nominal voltage	500 V

#### Line contact

# PTFIX 4/18X1,5-NS35 WH - Distribution block



1047461

<https://www.phoenixcontact.com/nl/products/1047461>

Stripping length	10 mm ... 12 mm
Connection in acc. with standard	IEC 60998-2-2
Conductor cross-section rigid	0.2 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Cross section AWG	24 ... 10 (converted acc. to IEC)
Conductor cross-section flexible	0.2 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Conductor cross-section, flexible [AWG]	24 ... 10 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Flexible conductor cross-section (ferrule with plastic sleeve)	0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Nominal cross section	4 mm <sup>2</sup>
Nominal current	41 A
Maximum load current	41 A (with 6 mm <sup>2</sup> conductor cross-section)
Maximum total current	41 A

## Load contact Connection cross sections directly pluggable

Conductor cross-section rigid	0.34 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section flexible (ferrule without plastic sleeve)	0.34 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>
Flexible conductor cross-section (ferrule with plastic sleeve)	0.34 mm <sup>2</sup> ... 1.5 mm <sup>2</sup>

## Line contact Connection cross sections directly pluggable

Conductor cross-section rigid	0.34 mm <sup>2</sup> ... 6 mm <sup>2</sup>
Conductor cross-section, rigid [AWG]	24 ... 12 (converted acc. to IEC)
Conductor cross-section flexible	0.34 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Conductor cross-section flexible (ferrule without plastic sleeve)	0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>
Flexible conductor cross-section (ferrule with plastic sleeve)	0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>

## Dimensions

Width	21.6 mm
Height	58.1 mm
Depth on NS 15	26.4 mm
Depth on NS 35/7,5	28.4 mm

## Material specifications

Color	white (RAL 9010)
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))	125 °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)	27,5 MJ/kg

1047461

<https://www.phoenixcontact.com/nl/products/1047461>

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

## Electrical tests

### Surge voltage test

Test voltage setpoint	7.3 kV
Result	Test passed

### Temperature-rise test

Requirement temperature-rise test	Increase in temperature $\leq 45$ K
Result	Test passed
Result	Test passed

### Power-frequency withstand voltage

Test voltage setpoint	1.89 kV
Result	Test passed

## Mechanical properties

### Mechanical data

Open side panel	No
-----------------	----

## Mechanical tests

### Mechanical strength

Result	Test passed
--------	-------------

### Attachment on the carrier

DIN rail/fixing support	NS 35/NS 15
Test force setpoint	5 N
Result	Test passed

## Environmental and real-life conditions

### Aging

Temperature cycles	192
Result	Test passed

### Needle-flame test

Time of exposure	30 s
Result	Test passed

### Oscillation/broadband noise

Specification	DIN EN 50155 (VDE 0115-200):2018-05
Spectrum	Long life test category 2, bogie-mounted
Frequency	$f_1 = 5$ Hz to $f_2 = 250$ Hz
ASD level	6.12 (m/s <sup>2</sup> ) <sup>2</sup> /Hz

# PTFIX 4/18X1,5-NS35 WH - Distribution block



1047461

<https://www.phoenixcontact.com/nl/products/1047461>

Acceleration	3.12g
Test duration per axis	5 h
Test directions	X-, Y- and Z-axis
Result	Test passed

## Shocks

Specification	DIN EN 50155 (VDE 0115-200):2018-05
Pulse shape	Half-sine
Acceleration	30g
Shock duration	18 ms
Number of shocks per direction	3
Test directions	X-, Y- and Z-axis (pos. and neg.)
Result	Test passed

## Ambient conditions

Ambient temperature (operation)	-60 °C ... 110 °C (Operating temperature range incl. self-heating; for max. short-term operating temperature, see RTI Elec.)
Ambient temperature (storage/transport)	-25 °C ... 60 °C (for a short time, not exceeding 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 60947-7-1
	IEC 60998-2-2

## Mounting

Mounting type	NS 35/7,5
	NS 35/15

Drawings

Circuit diagram



# PTFIX 4/18X1,5-NS35 WH - Distribution block



1047461

<https://www.phoenixcontact.com/nl/products/1047461>

## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/nl/products/1047461>

<b>DNV</b> Approval ID: TAE00002TT-05				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
keine				
	500 V	24 A	-	-

<b>CSA</b> Approval ID: 13631				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
<b>B</b>				
Output	300 V	20 A	26 - 12	-
Input	300 V	30 A	24 - 10	-
<b>C</b>				
Output	150 V	20 A	26 - 12	-
Input	150 V	30 A	24 - 10	-

<b>IECEE CB Scheme</b> Approval ID: DE1-62701				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
keine				
	500 V	32 A	-	- 4

<b>EAC</b> Approval ID: RU C-DE.BL08.B.00644				
---	--	--	--	--

<b>VDE Zeichengenehmigung</b> Approval ID: 40047797				
--	--	--	--	--

<b>cULus Recognized</b> Approval ID: E60425				
	Nominal voltage $U_N$	Nominal current $I_N$	Cross section AWG	Cross section $mm^2$
<b>B</b>				
Output	300 V	20 A	26 - 12	-
Input	300 V	30 A	24 - 10	-
<b>C</b>				
Output	150 V	20 A	26 - 12	-
Input	150 V	30 A	24 - 10	-

# PTFIX 4/18X1,5-NS35 WH - Distribution block



1047461

<https://www.phoenixcontact.com/nl/products/1047461>



**EAC**

Approval ID: KZ7500651131219505

# PTFIX 4/18X1,5-NS35 WH - Distribution block



1047461

<https://www.phoenixcontact.com/nl/products/1047461>

## Classifications

### ECLASS

ECLASS-13.0	27250118
ECLASS-15.0	27250118

### ETIM

ETIM 10.0	EC000897
-----------	----------

### UNSPSC

UNSPSC 21.0	39121400
-------------	----------

# PTFIX 4/18X1,5-NS35 WH - Distribution block



1047461

<https://www.phoenixcontact.com/nl/products/1047461>

## 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%
-------------------------------------	----------------------------

Phoenix Contact 2026 © - all rights reserved  
<https://www.phoenixcontact.com>

PHOENIX CONTACT B.V.  
Hengelder 56 6902 PA Zevenaar  
Postbus 246 6900 AE Zevenaar  
(0316) 59 17 20  
[sales@phoenixcontact.nl](mailto:sales@phoenixcontact.nl)