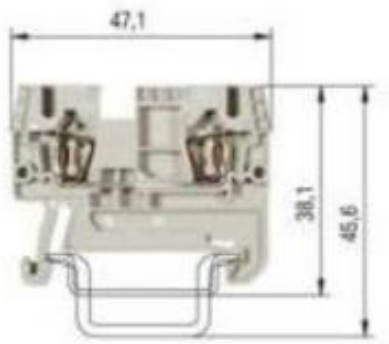
Datasheet

Art.No. 56.703.0055.0

Feed-through terminal WKFN 2,5 /35 grey

Feed-through DIN rail terminal block with spring clamp connection for mounting on TS 35, nominal cross section 2.5 mm², width 5 mm, color gray



Art.No.	56.703.0055.0
EAN	4015573718326
Order unit	100 pieces

Approvals

Technical data

General

Nominal cross section	2.5 mm²
Colour	Grey
Number of levels	1
Number of clamp positions per level	2
Width/grid dimension	5 mm
Insulating housing	PA666
Inflammability class of insulation material acc. with UL94	V0
Explosion-tested version "Ex e"	Yes
Mounting method	DIN rail (top hat rail) 35/7.5 mm
Terminal blocks for electrical installations	Yes

Technical data

Rated current	24 A
Rated voltage	800 V
Rated impulse voltage	8 kV
Pollution degree	3
Closing plate required	Yes
Length	5 mm
Type of insulation material	Thermoplastic

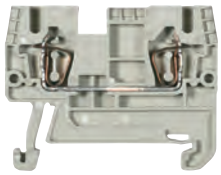
Connection Data

Connection type 1	Tension clamp connection
Connection type 2	Tension clamp connection

Feed-through blocks with tension spring connection

WKFN 2,5/35

- Feed-through block with tension spring connection for mounting on TS 35
- Nominal cross section 2.5 mm²
- Ex e I/II ⟨Ex⟩ II 2GD IM2
  Follow the EX installation instructions on page 143



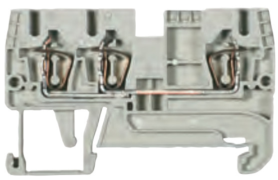
Description	Type	Part No.	Std. Pack
Feed-through block, gray	WKFN 2,5/35	56.703.0055.0	100
Feed-through block, blue	WKFN 2,5/35 BLAU	56.703.0055.6	100

General data				
Width / length / height, incl. TS 7.5	5 mm / 47 mm / 38 mm			
Wire strip length	11 mm			
Approvals				PTB 04 ATEX 1051 U
Technical data	**IEC**	**UL**	**CSA**	⟨Ex⟩
	EN 60 947-1-1			EN 60 079-0/-7
Cross section fine-stranded	0.13–2.5 mm²			0.2–2.5 mm²
Cross section solid/stranded	0.13–4 mm²			0.13–4 mm²
Cross section, AWG		22–12	24–12	
Rated current	24 A	20 A	24 A	22 A¹⁾
Rated voltage	800 V	600 V	600 V	550 V
Rated impulse voltage	8 kV			
Pollution degree	3			
Note				¹⁾ for 40 K and 45 K

Accessories	Type	Part No.	Std. Pack
End plate, gray	APFN 2,5	07.312.6755.0	10
End plate, blue	APFN 2,5 BLAU	07.312.6755.6	10
Partition, gray	TWFN 2,5	07.312.6855.0	10

WKFN 2,5 D1/2/35

- Duo feed-through block with tension spring connection for mounting on TS 35
- Nominal cross section 2.5 mm²
- Ex e I/II ⟨Ex⟩ II 2GD IM2
  Follow the EX installation instructions on page 143



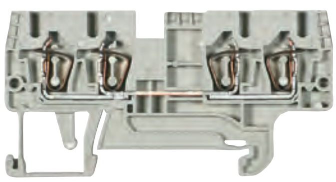
Description	Type	Part No.	Std. Pack
Feed-through block, gray	WKFN 2,5 D1/2/35	56.703.5055.0	100
Feed-through block, blue	WKFN 2,5 D1/2/35 BLAU	56.703.5055.6	100

General data				
Width / length / height, incl. TS 7.5	5 mm / 60 mm / 38 mm			
Wire strip length	11 mm			
Approvals				PTB 04 ATEX 1051 U
Technical data	**IEC**	**UL**	**CSA**	⟨Ex⟩
	EN 60 947-1-1			EN 60 079-0/-7
Cross section fine-stranded	0.13–2.5 mm²			0.2–2.5 mm²
Cross section solid/stranded	0.13–4 mm²			0.13–4 mm²
Cross section, AWG		22–12	24–12	
Rated current	24 A	20 A	24 A	22 A¹⁾
Rated voltage	800 V	600 V	600 V	550 V
Rated impulse voltage	8 kV			
Pollution degree	3			
Note				¹⁾ for 40 K and 45 K

Accessories	Type	Part No.	Std. Pack
End plate, gray	APFN 2,5 D1/2	07.312.6955.0	10
End plate, blue	APFN 2,5 D1/2 BLAU	07.312.6955.6	10
Partition, gray	TWFN 2,5 D1/2	07.312.7055.0	10

WKFN 2,5 D2/2/35

- Duo feed-through block with tension spring connection for mounting on TS 35
- Nominal cross section 2.5 mm²
- Ex e I/II ⟨Ex⟩ II 2GD IM2
  Follow the EX installation instructions on page 143



Description	Type	Part No.	Std. Pack
Feed-through block, gray	WKFN 2,5 D2/2/35	56.703.5155.0	100
Feed-through block, blue	WKFN 2,5 D2/2/35 BLAU	56.703.5155.6	100

General data				
Width / length / height, incl. TS 7.5	5 mm / 72 mm / 38 mm			
Wire strip length	11 mm			
Approvals				PTB 04 ATEX 1051 U
Technical data	**IEC**	**UL**	**CSA**	⟨Ex⟩
	EN 60 947-1-1			EN 60 079-0/-7
Cross section fine-stranded	0.13–2.5 mm²			0.2–2.5 mm²
Cross section solid/stranded	0.13–4 mm²			0.13–4 mm²
Cross section, AWG		22–12	24–12	
Rated current	24 A	20 A	24 A	22 A¹⁾
Rated voltage	800 V	600 V	600 V	550 V
Rated impulse voltage	8 kV			
Pollution degree	3			
Note				¹⁾ for 40 K and 45 K

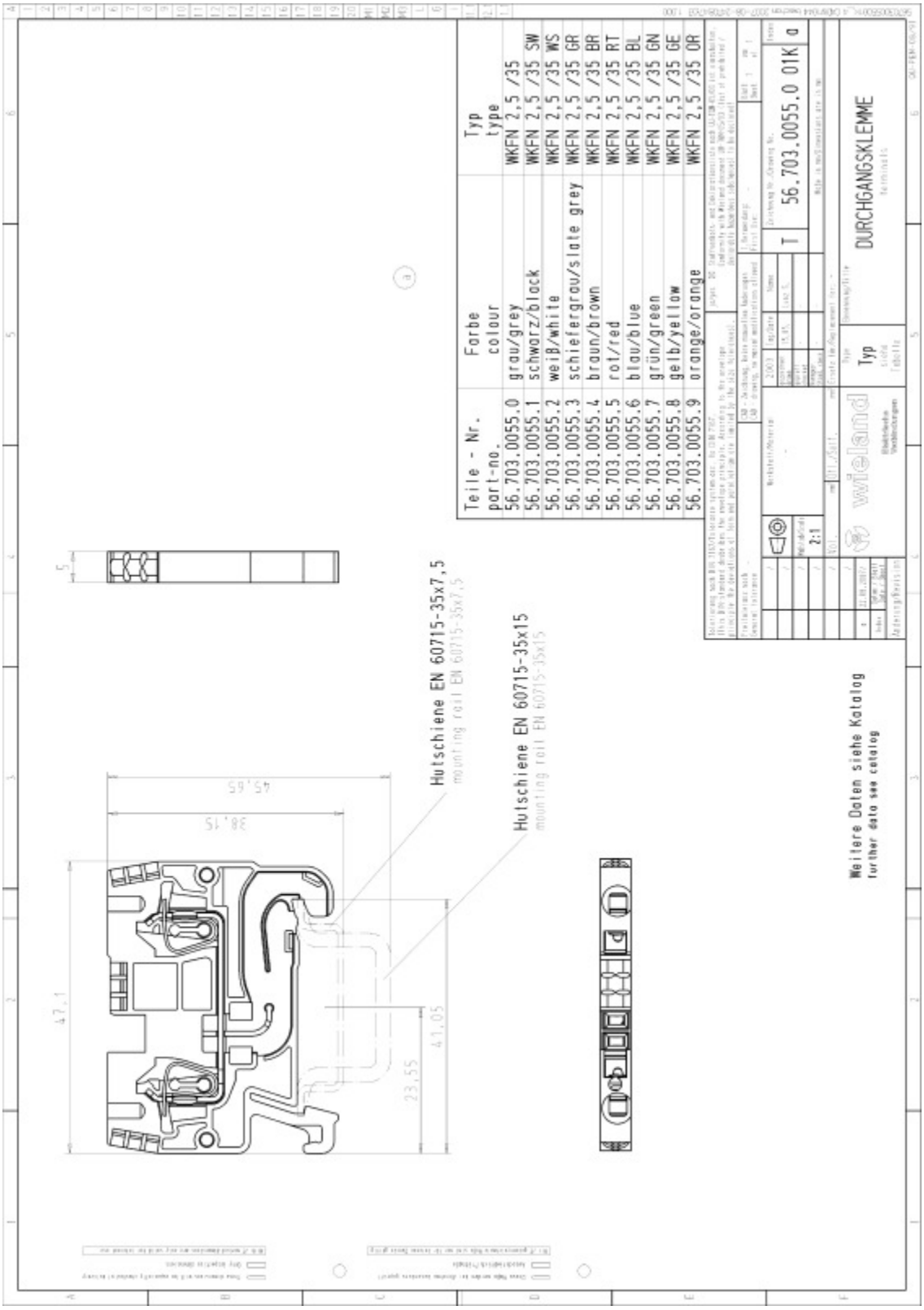
Accessories	Type	Part No.	Std. Pack
End plate, gray	APFN 2,5 D2/2	07.312.7155.0	10
End plate, blue	APFN 2,5 D2/2 BLAU	07.312.7155.6	10
Partition, gray	TWFN 2,5 D2/2	07.312.7255.0	10

Minimum cross section solid	0.13 mm²
Maximum cross section solid	4 mm²
Minimum cross section fine stranded	0.13 mm²
Maximum cross section fine stranded	2.5 mm²
Wire strip length	11 mm

Technical Data UL/CSA

Cross section UL	22-12 AWG
Voltage UL	600 V
Current factory wiring	20 A
Current field wiring	20 A
Cross section CSA	24-12 AWG
Voltage CSA	600 V
Current CSA	24 A

Drawings


Teile - Nr.
part-no.
Farbe
colour
Typ
type
56.703.0055.0 grau/grey WKFN 2,5 /35
56.703.0055.1 schwarz/black WKFN 2,5 /35 SW
56.703.0055.2 weiß/white WKFN 2,5 /35 WS
56.703.0055.3 schiefergrau/slate grey WKFN 2,5 /35 GR
56.703.0055.4 braun/brown WKFN 2,5 /35 BR
56.703.0055.5 rot/red WKFN 2,5 /35 RT
56.703.0055.6 blau/blue WKFN 2,5 /35 BL
56.703.0055.7 grün/green WKFN 2,5 /35 GN
56.703.0055.8 gelb/yellow WKFN 2,5 /35 GE
56.703.0055.9 orange/orange WKFN 2,5 /35 OR
Hutschiene EN 60715-35x7,5
mounting rail EN 60715-35x7,5
Hutschiene EN 60715-35x15
mounting rail EN 60715-35x15
45,65
38,15
47,1
41,05
23,55
5
Weitere Daten siehe Katalog
further data see catalog
DURCHGANGSKLEMME
56.703.0055.0 01K a

Information about EXe

Technical information

- The information regarding cross sectional area and connection types pertains to unprepared wires without ferrules! Ferrules are not necessary for secure connection. Whenever ferrules are used, make sure that the tools specified by the manufacturer are used exclusively.
- The voltage ratings apply to the terminals in their intended application. When different products are mounted adjacent to each other, the proper isolation distances must be adhered to.
- If the ground blocks are not used in block assemblies, but are mounted to the rail as single terminal blocks, end clamps have to be used.
- A detailed description of technical data, the standards requirements, and the application conditions are available in the flyer ***facts*** & DATA.

ATEX regulation

- For the use of DIN rail terminal blocks in Ex areas, the regulations of EN 60079-0 apply; whereas for increased safety Exe the regulations of EN 60079-7 must be followed. For an approximation of the laws of the EU member states, directive 94/9/EG was created, which is generally known as ATEX 100a and which is the basis for harmonization in this field. ATEX stands for "atmoshpere explosive" while 100a refers to the corresponding article of the EC contract.
- Directive ATEX 100a applies for protection against dust and gas explosions in all industrial Ex areas and in mining. The testing and certificating institutes named in directive ATEX 100a must follow accreditation procedures which are the same throughout Europe.
- In accordance with EN 60070-0/60079-7 and ATEX 100a, these certifying institutes write out EC certificates for prototype tests. These prototype test certificates for components together with the corresponding quality system certification of the supplier are required to obtain the so-called ATEX approval.
- In combination with the Ex mark, the markings of the Wieland terminal blocks have the following meaning:

Ex	Identification
II	Device group
2	Category
G D	Areas
KEMA	Name of testing institute
ATEX...	Certifcate, year of testing, number

Mounting instructions for Ex e applications

- If feed-through blocks are mounted directly adjacent to other feed-through blocks of a different size, or directly adjacent to ground blocks, the open side of the block group of the same type must be covered by an end plate or partition.
- If adjacent DIN rail terminal blocks are jumpered or if jumpered DIN rail terminal blocks are positioned next to unjumpered DIN rail terminal blocks, a partition plate must be inserted between the individual terminal block groups or at the beginning and end of a laterally or longitudinally connected terminal block (group) in order to meet the specified isolation distances. Notched out and jumpering cross connectors can not be used in Ex areas.
- If the terminal blocks are combined with other certified series and sizes and when their accessories are used, the required creepage distances and clearances must be adhered to.
- The feed through terminal blocks and protective conductor terminal blocks are suitable for enclosures for use in explosive gas atmospheres or for use in the presence of combustible dust. For explosive gas atmospheres these enclosures must satisfy the requirements of EN 60079-0 and EN 60079-7. For combustible dust these enclosures must satisfy the requirements of EN 61241-0 and EN 61241-1 rather EN 50281-1-1.
- If the DIN rail terminal blocks are installed in a housing with protection type "e" (increased safety) according to EN 60079-7, the clearances and creepage distances stated in Table 1 must be adhered to..
- The indicated values for the current carrying capability refer to a maximum ambient temperature of 40 °C. When the terminal blocks are loaded with the maximum rated current the temperature rise will be max. 45 K.
- Operating temperature range: -40°C ... +80°C, series WK(N)/M..., WKF
  -20°C ... +80°C, series WKFN
- If cables are used whose cross-section is smaller than the nominal cable cross-section, the corresponding lower current must be specified in the EC prototype test certificate for the complete device.
- Due to the heat generated during operation at the specified current and at ambient temperatures of ≤ 40 °C, the DIN rail terminal blocks can be installed in equipment (mainly distribution and connection boxes) suitable for temperature class T6. If DIN rail terminal blocks are installed in equipment with a temperature class ranging from T1 to T5, it must be ensured that the maximum temperature of the insulating parts does not exceed the maximum value in the operating temperature range.