

# NBC-8,0-971/M12FS VR - Bus system cable



1426213

<https://www.phoenixcontact.com/us/products/1426213>

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Bus system cable, VARAN, 6-position, PVC, black, shielded, cable length: 8 m, Customer version

## Commercial data

Item number	1426213
Packing unit	1 pc
Minimum order quantity	50 pc
Note	Made to order (non-returnable)
Product key	AF1CMM
GTIN	4055626456317
Weight per piece (including packing)	564.75 g
Weight per piece (excluding packing)	564.75 g
Country of origin	PL

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## Technical data

### Product properties

Product type	Data cable preassembled
Number of positions	6

### Interfaces

Signal type/category	VARAN
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### Electrical properties

Nominal voltage $U_N$	30 V AC
	30 V DC

### Cable/line

Cable length	8 m
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#### VARAN PVC [971]

Dimensional drawing	
UL AWM Style	2461 (80°C/300 V)
Number of positions	6
Shielded	yes
Cable type	VARAN PVC [971]
Conductor structure	1x2x24/32+2x2x24/19, SF/UTP
Signal runtime	5.3 ns/m
Conductor structure signal line	19x 0.13 mm
AWG signal line	24
Conductor structure, voltage supply	32x 0.10 mm
AWG power supply	24
Conductor cross-section	2x 2x 0.25 mm <sup>2</sup> (Signal line)
	2x 0.25 mm <sup>2</sup> (Power supply)
Wire diameter incl. insulation	1.25 mm (Signal line)
	1.4 mm (Power supply)
External cable diameter	7.00 mm ±0.2 mm
Outer sheath, material	PVC
External sheath, color	black
Conductor material	Bare Cu litz wires
Material wire insulation	PE

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Single wire, color	blue-yellow, green-orange, red-blue
Thickness, outer sheath	0.90 mm
Twisted pairs	2 cores to the pair
Overall twist	3 pairs with filler elements to the core
Optical shield covering	85 %
Max. conductor resistance	78 $\Omega$ /km (at 20 °C)
Insulation resistance	$\geq 500$ M $\Omega$ *km (at 20 °C)
Working capacitance	approx. 57 nF (at 1 kHz)
Nominal voltage, cable	$\leq 80$ V
Test voltage Core/Core	1000 V
Test voltage Core/Shield	1000.00 V
Minimum bending radius, fixed installation	4 x D
Minimum bending radius, flexible installation	8 x D
Smallest bending radius, fixed installation	28 mm
Smallest bending radius, movable installation	56 mm
Dynamic load capacity (bending)	Max. bending cycles: 200000, Bending radius: 5 x D
Flame resistance	according to IEC 60332-1-2
Resistance to oil	According to DIN EN 60811-2-1, 168 h at 100°C
Ambient temperature (operation)	-40 °C ... 80 °C
Ambient temperature (installation)	-40 °C ... 80 °C

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## Classifications

### ECLASS

ECLASS-13.0	27060307
ECLASS-15.0	27060307

### ETIM

ETIM 9.0	EC001855
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### UNSPSC

UNSPSC 21.0	26121600
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### 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%
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