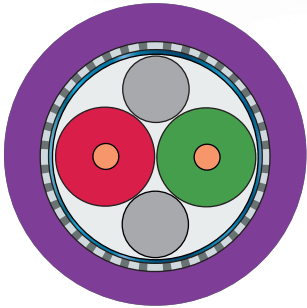


CABLES MADE IN GERMANY

The logo for VOKA, featuring the word "VOKA" in a bold, white, sans-serif font. The text is contained within a white rounded rectangular border. A thin white horizontal line extends from the left and right sides of the rounded rectangle across the page.

VOKA



VOKA PROFIBUS 1x2x0,64

Bus-cable for Profibus

Permanent indoor installation 1x2x0,64

APPLICATION

The cable can be used as connecting cable in general machinery construction. It is used as connection cable between bus segments. Cost-efficient plant and machinery wiring is the great advantage of bus technology. Only the information-related component responds to the signal and processes it. The cable is applicable for indoor installation. Approved for usage acc. to euroclass classification Fca.

STANDARDS

IEC 61158-2 ; DIN 19245 T3 ; EN 50170

CONSTRUCTION

Conductor: copper wire, solid, bare (AWG 22/1)

Core insulation: FS-PE

Core diameter: 2,50 ± 0,05 mm

Core identification: red, green

Screening: Al/PETP compound foil

tinned copper wire braid 0.10

Sheath material: Special PVC

Sheath color: violett, RAL 4001

BEHAVIOR UNDER FIRE CONDITIONS

EN 60332-1-2 ; UL AWM 2571 ; UL AWM 21694 ;

EN 13501-6 class Fca

CHEMICAL PROPERTIES

RoHS 2011/65/EU

ELECTRICAL CHARACTERISTICS

| | |
|-----------------------------------|----------------------------|
| loop resistance max. | max. 112 Ω / km |
| Insulation resistance min. | min. 5 GΩ x km at +20°C |
| Operating capacity | nom. 30 nF / km |
| Impetance | 150 Ω ± 15 Ω |
| Test voltage | 1000 V / AC |
| Nominal voltage U ₀ /U | 125 V |
| Coupling attenuation | > 80 dB |
| Coupling resistance | < 20 mΩ/m at 10MHz |

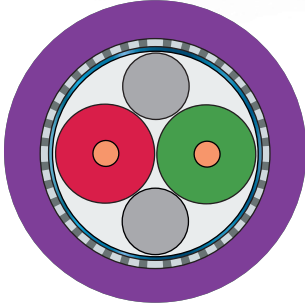
THERMAL & MECHANICAL PROPERTIES

| | |
|--------------------------------|----------------|
| Temperature range stationary | -20°C to +60°C |
| Temperature range during inst. | 0°C to +50°C |
| min. bending radius installed | 6 x diameter |
| min. bending radius moved | 12 x diameter |
| Maximum traction | 100N |

| Dimension | Diameter appr.mm | Cable weight appr.kg/km | Copper index kg/km | Article number |
|-----------|------------------|-------------------------|--------------------|----------------|
| AWG22/1 | 7.6 | 54 | 25 | |

Version: 10/2022

We reserve changes which serve technical progress • Price upon quantity-specific request



VOKA PROFIBUS 1x2x0,64 halogen-free

Bus-cable for Profibus

Permanent indoor installation 1x2x0,64

APPLICATION

Halogen-free bus-cable can be used as connecting cable in general machinery construction. It is used as connection cable between bus segments. Cost-efficient plant and machinery wiring is the great advantage of bus technology. Only the information-related component responds to the signal and processes it. The cable is applicable for indoor installation. Approved for usage acc. to euroclass classification Fca.

STANDARDS

IEC 61158-2 ; DIN 19245 T3 ; EN 50170

CONSTRUCTION

Conductor: copper wire, solid, bare, AWG 22/1

Core insulation: FS-PE

Core diameter: 2,50 ± 0,05 mm

Core identification: red, green

Screening: Al/PETP compound foil

tinned copper wire braid

Sheath material: halogen free material (FRNC)

Sheath color: violett, RAL 4001

BEHAVIOR UNDER FIRE CONDITIONS

EN 60332-1-2 ; EN 61034 ; EN 50267 ;
IEC 60754-2 ; IEC 61034 ; UL AWM 21309 ;
EN 13501-6 class Fca

CHEMICAL PROPERTIES

RoHS 2011/65/EU ; IEC 60811-2-1 (IRM 902, 4h bei 70°C)

ELECTRICAL CHARACTERISTICS

| | |
|-----------------------------------|-------------------------|
| loop resistance max. | max. 112 Ω / km |
| Insulation resistance min. | min. 5 GΩ x km at +20°C |
| Operating capacity | nom. 30 nF / km |
| Impedance | 150 Ω ± 15 Ω |
| Test voltage | 1000 V / AC |
| Nominal voltage U ₀ /U | 125 V |
| Coupling attenuation | > 80 dB |
| Coupling resistance | < 20 mΩ/m at 10MHz |

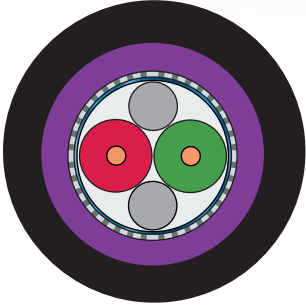
THERMAL & MECHANICAL PROPERTIES

| | |
|--------------------------------|----------------|
| Temperature range stationary | -20°C to +70°C |
| Temperature range during inst. | 0°C to +50°C |
| min. bending radius installed | 6 x diameter |
| min. bending radius moved | 12 diameter |
| Maximum traction | 100N |

| Dimension | Diameter appr.mm | Cable weight appr.kg/km | Copper index kg/km | Article number |
|-----------|------------------|-------------------------|--------------------|----------------|
| AWG22/1 | 7.6 | 54 | 25 | |

Version: 02/2025

We reserve changes which serve technical progress • Price upon quantity-specific request



VOKA PROFIBUS 1x2x0,64 Outdoor

Bus-cable for Profibus
Permanent outdoor installation

APPLICATION

The cable can be used as connection cable in general machinery construction. It is used as connection cable between bus segments. Cost-efficient plant and machinery wiring is the great advantage of bus technology. Only the information-related component responds to the signal and processes it. The cable is applicable for indoor and outdoor installation. Approved for usage acc. to euroclass classification Fca.

STANDARDS

IEC 61158-2 ; DIN 19245 T3 ; EN 50170

CONSTRUCTION

Conductor: copper wire, solid, bare

Core insulation: FS-PE

Core diameter: 2,50 ± 0,05 mm

Core identification: red, green

Screening: Al/PETP compound foil
tinned copper wire braid

Sheath material: inside: special PVC
outside: PE

Sheath color: inside: violett, RAL 4001
outside: black, RAL 9005

BEHAVIOR UNDER FIRE CONDITIONS

EN 60332-1-2

EN 13501-6 class Fca

CHEMICAL PROPERTIES

RoHS 2011/65/EU ; UV-resistant

ELECTRICAL CHARACTERISTICS

| | |
|-----------------------------------|----------------------------|
| loop resistance max. | max. 112 Ω / km |
| Insulation resistance min. | min. 5 GΩ x km at +20°C |
| Operating capacity | nom. 30 nF / km |
| Impedance | 150 Ω ± 15 Ω |
| Test voltage | 1000 V / AC |
| Nominal voltage U ₀ /U | 125 V |
| Coupling attenuation | > 80 dB |
| Coupling resistance | < 20 mΩ/m at 10MHz |

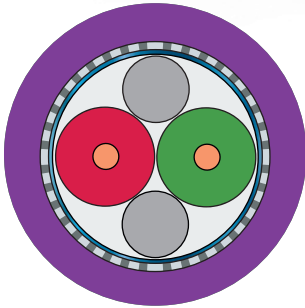
THERMAL & MECHANICAL PROPERTIES

| | |
|--------------------------------|----------------|
| Temperature range stationary | -40°C to +70°C |
| Temperature range during inst. | -20°C to +70°C |
| min. bending radius installed | 8 x diameter |
| min. bending radius moved | 15 x diameter |
| Maximum traction | 150N |

| Dimension | Diameter appr.mm | Cable weight appr.kg/km | Copper index kg/km | Article number |
|-----------|---------------------|----------------------------|-----------------------|----------------|
| 0,0096 | 2,5 | | | |
| 0,0384 | 4 | | | |

Version: 06/2023

We reserve changes which serve technical progress • Price upon quantity-specific request



VOKA PROFIBUS 1x2x0,64 PUR

Bus-cable for profibus
Permanent installation indoor 1x2x0,64

APPLICATION

Bus-data-cable with PUR casing can be used as connecting cable in general machinery construction. It is used as connection between bus segments. Cost-efficient plant and machinery wiring is the great advantage of bus technology. Only information-related component responds to the signal and processes. The cable is applicable for indoor installation.

STANDARDS

IEC 61158-2 ; DIN 19245 T3 ; EN 50170

CONSTRUCTION

Conductor: copper wire, solid, bare, AWG 22/1

Core insulation: FS-PE

Core diameter: 2,50 ± 0,05 mm

Core identification: red, green

Screening: Al/PETP compound foil
tinned copper wire braid 0.10

Sheath material: PUR FHF

Sheath color: violett, RAL 4001

BEHAVIOR UNDER FIRE CONDITIONS

EN 60332-1-2 ; IEC 60754-2 ; UL AWM 21586 ;

UL AWM 21164

EN 13501-6 class Fca

CHEMICAL PROPERTIES

RoHS 2011/65/EU ; IEC 60811-2-1 (IRM 902, 4h bei 70°C)

UV-resistant

ELECTRICAL CHARACTERISTICS

| | |
|-----------------------------------|-------------------------|
| loop resistance max. | max. 112 Ω / km |
| Insulation resistance min. | min. 5 GΩ x km at +20°C |
| Operating capacity | nom. 30 nF / km |
| Impedance | 150 Ω ± 15 Ω |
| Test voltage | 1000 V / AC |
| Nominal voltage U ₀ /U | 125 V |
| Coupling attenuation | > 80 dB |
| Coupling resistance | < 20 mΩ/m at 10MHz |

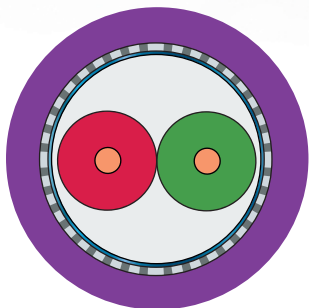
THERMAL & MECHANICAL PROPERTIES

| | |
|--------------------------------|----------------|
| Temperature range stationary | -30°C to +80°C |
| Temperature range during inst. | -10°C to +50°C |
| min. bending radius installed | 6 x diameter |
| min. bending radius moved | 12 x diameter |
| Maximum traction | 120N |

| Dimension | Diameter appr.mm | Cable weight appr.kg/km | Copper index kg/km | Article number |
|-----------|------------------|-------------------------|--------------------|----------------|
| AWG22/1 | 7.8 | 53 | 25 | |

Version: 10/2022

We reserve changes which serve technical progress • Price upon quantity-specific request



VOKA PROFIBUS 1x2x0,64 FC

Bus-cable for Profibus
Fast connect

APPLICATION

The cable can be used as connecting cable in general machinery construction. It is used as connecting cable between bus segments. Cost-efficient plant and machinery wiring is the great advantage bus technology. Only the information-related component responds to the signal and processes it. Together with the appropriate tools and connectors the cable is applicable for quick-assembly technology. Approved for usage acc. to euroclass classification Fca.

STANDARDS

IEC 61158-2 ; DIN 19245 T3 ; EN 50170

CONSTRUCTION

Conductor: copper wire, solid, bare, AWG 22/1

Core insulation: FS-PE

Core diameter: 2,50 ± 0,05 mm

Core identification: red, green

Inner sheath material: Special PVC

Screening: Al/PETP compound foil
tinned copper wire braid

Sheath material: Special PVC

Sheath color: violett, RAL 4001

BEHAVIOR UNDER FIRE CONDITIONS

EN 60332-1-2 ; UL AWM 2571 ; UL AWM 21694 ;
EN 13501-6 class Fca

CHEMICAL PROPERTIES

RoHS 2011/65/EU

ELECTRICAL CHARACTERISTICS

| | |
|-----------------------------------|----------------------------|
| loop resistance max. | max. 112 Ω / km |
| Insulation resistance min. | min. 5 GΩ x km at +20°C |
| Operating capacity | nom. 30 nF / km |
| Impetance | 150 Ω ± 15 Ω |
| Test voltage | 1000 V / AC |
| Nominal voltage U ₀ /U | 125 V |
| Coupling attenuation | > 80 dB |
| Coupling resistance | < 20 mΩ/m at 10MHz |

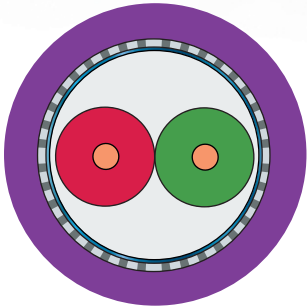
THERMAI & MECHANICAI PROPERTIES

| | |
|--------------------------------|----------------|
| Temperature range stationary | -20°C to +60°C |
| Temperature range during inst. | 0°C to +50°C |
| min. bending radius installed | 6x diameter |
| min. bending radius moved | 12 x diameter |
| Maximum traction | 100N |

| Dimension | Diameter appr.mm | Cable weight appr.kg/km | Copper index kg/km | Article number |
|-----------|---------------------|----------------------------|-----------------------|----------------|
| AWG22/1 | 7.8 | 70 | 25 | |

Version: 10/2022

We reserve changes which serve technical progress • Price upon quantity-specific request



VOKA PROFIBUS 1x2x0,64 FC halogenfree

Bus-cable for profibus fast connect
Permanent indoor installation 1x2x0,64

APPLICATION

Halogen-free bus-cable can be used as connecting cable in general machinery construction. It is used as connection cable between bus segments. Cost-efficient plant and machinery wiring is the great advantage of bus technology. Only the information-related component responds to the signal and processes it. The cable is applicable for indoor installation. Approved for usage acc. to euroclass classification Fca.

STANDARDS

IEC 61158-2 ; DIN 19245 T3 ; EN 50170

CONSTRUCTION

Conductor: copper wire, solid, bare, AWG 22/1

Core insulation: FS-PE

Core diameter: 2,50 ± 0,05 mm

Core identification: red, green

Inner sheath material: halogen-free material (FRNC)

Screening: AL/PETP compound foil
tinned copper wire braid

Sheath material: halogen-free material (FRNC)

Sheath color: violett, RAL 4001

BEHAVIOR UNDER FIRE CONDITIONS

EN 60332-1-2 ; EN 61034 ; EN 50267 ;
IEC 60754-2 ; IEC 61034 ; UL AWM 21309 ;
EN 13501-6 class Fca

CHEMICAL PROPERTIES

RoHS 2011/65/EU ; IEC 60811-2-1 (IRM 902, 4h at 70°C)

ELECTRICAL CHARACTERISTICS

| | |
|----------------------------|----------------------------|
| loop resistance max. | max. 112 Ω / km |
| Insulation resistance min. | min. 5 GΩ x km at +20°C |
| Operating capacity | nom. 30 nF / km |
| Impetance | 150 Ω ± 15 Ω |
| Test voltage | 1000 V / AC |
| Nominal voltage U_0/U | 125 V |
| Coupling attenuation | > 80 dB |
| Coupling resistance | < 20 mΩ/m at 10MHz |

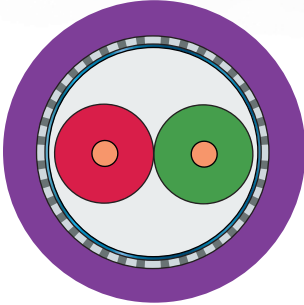
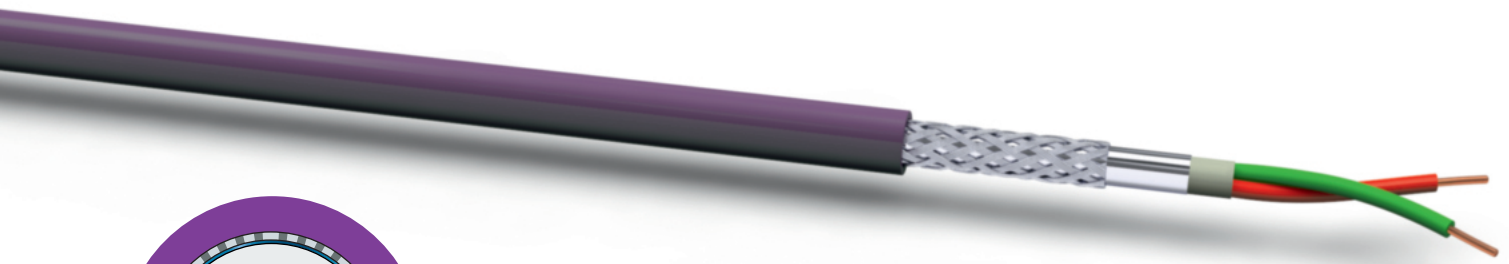
THERMAI & MECHANICAI PROPERTIES

| | |
|--------------------------------|----------------|
| Temperature range stationary | -20°C to +70°C |
| Temperature range during inst. | 0°C to +50°C |
| min. bending radius installed | 6 x diameter |
| min. bending radius moved | 12 x diameter |
| Maximum traction | 100N |

| Dimension | Diameter appr.mm | Cable weight appr.kg/km | Copper index kg/km | Article number |
|-----------|---------------------|----------------------------|-----------------------|----------------|
| AWG22/1 | 7.8 | 70 | 25 | |

Version: 01/2025

We reserve changes which serve technical progress • Price upon quantity-specific request



VOKA PROFIBUS 1x2x0,64 FC halogenfree Cca

Bus-cable for profibus fast connect
Permanent indoor installation 1x2x0,64

APPLICATION

Halogen-free bus-cable can be used as connecting cable in general machinery construction. It is used as connection cable between bus segments. Cost-efficient plant and machinery wiring is the great advantage of bus technology. Only the information-related component responds to the signal and processes it. The cable is applicable for indoor installation. Approved for usage acc. to euroclass classification Cca.

STANDARDS

IEC 61158-2 ; DIN 19245 T3 ; EN 50170

CONSTRUCTION

Conductor: copper wire, solid, bare, AWG 22/1

Core insulation: FS-PE

Core diameter: 2,50 ± 0,05 mm

Core identification: red, green

Inner sheath material: halogen-free material (FRNC)

Screening: AL/PETP compound foil
tinned copper wire braid

Sheath material: halogen-free material (FRNC)

Sheath color: violett, RAL 4001

BEHAVIOR UNDER FIRE CONDITIONS

EN 60332-1-2 ; EN 61034 ; EN 50267 ;
IEC 60754-2 ; IEC 61034 ; UL AWM 21309 ;
EN 13501-6 class Cca

CHEMICAL PROPERTIES

RoHS 2011/65/EU ; IEC 60811-2-1 (IRM 902, 4h at 70°C)

ELECTRICAL CHARACTERISTICS

| | |
|-----------------------------------|----------------------------|
| loop resistance max. | max. 112 Ω / km |
| Insulation resistance min. | min. 5 GΩ x km at +20°C |
| Operating capacity | nom. 30 nF / km |
| Impetance | 150 Ω ± 15 Ω |
| Test voltage | 1000 V / AC |
| Nominal voltage U ₀ /U | 125 V |
| Coupling attenuation | > 80 dB |
| Coupling resistance | < 20 mΩ/m at 10MHz |

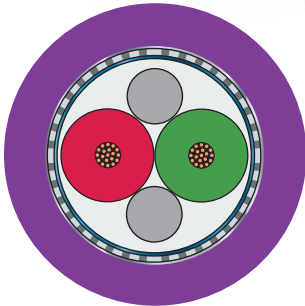
THERMAI & MECHANICAI PROPERTIES

| | |
|--------------------------------|----------------|
| Temperature range stationary | -20°C to +70°C |
| Temperature range during inst. | 0°C to +50°C |
| min. bending radius installed | 6 x diameter |
| min. bending radius moved | 12 x diameter |
| Maximum traction | 100N |

| Dimension | Diameter appr.mm | Cable weight appr.kg/km | Copper index kg/km | Article number |
|-----------|---------------------|----------------------------|-----------------------|----------------|
| AWG22/1 | 7.8 | 70 | 25 | |

Version: 02/2025

We reserve changes which serve technical progress • Price upon quantity-specific request



VOKA PROFIBUS 1x2x0,34² flexibel

Flexible bus-cable for Profibus
for indoor 1x2x0,34²

APPLICATION

The cable can be used as connecting cable in general machinery construction. It is used as connecting cable between bus segments. Cost-efficient plant and machinery wiring is the great advantage of bus technology. Only the information-related component responds to the signal and processes it. Approved for usage acc. to euroclass classification Fca.

STANDARDS

IEC 61158-2 ; DIN 19245 T3 ; EN 50170

CONSTRUCTION

Conductor: copper wire, solid, bare, AWG 22/7

Core insulation: FS-PE

Core diameter: 2,60 ± 0,05 mm

Core identification: violett, RAL 4001

Screening: AL/PETP compound foil
tinned copper wire braid 0.10

Sheath material: Special PVC

Sheath color: violett, RAL 4001

BEHAVIOR UNDER FIRE CONDITIONS

EN 60332-1-2 ; UL AWM 2571 ; UL AWM 21694

EN 13501-6 class Fca

CHEMICAL PROPERTIES

RoHS 2011/65/EU

ELECTRICAL CHARACTERISTICS

| | |
|-----------------------------------|----------------------------|
| loop resistance max. | max. 110 Ω / km |
| Insulation resistance min. | min. 5 GΩ x km at +20°C |
| Operating capacity | nom. 30 nF / km |
| Impedance | 150 Ω ± 15 Ω |
| Test voltage | 1000 V / AC |
| Nominal voltage U ₀ /U | 125 V |
| Coupling attenuation | > 80 dB |
| Coupling resistance | < 20 mΩ/m at 10MHz |

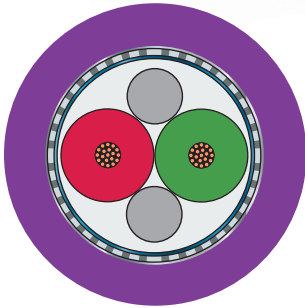
THERMAL & MECHANICAL PROPERTIES

| | |
|--------------------------------|----------------|
| Temperature range stationary | -20°C to +70°C |
| Temperature range during inst. | 0°C to +50°C |
| min. bending radius installed | 6 x diameter |
| min. bending radius moved | 12 x diameter |
| Maximum traction | 100N |

| Dimension | Diameter appr. mm | Cable weight appr. kg/km | Copper index kg/km | Article number |
|-----------|----------------------|-----------------------------|-----------------------|----------------|
| AWG22/7 | 8.2 | 68 | 28 | |

Version: 10/2019

We reserve changes which serve technical progress • Price upon quantity-specific request



VOKA PROFIBUS 1x2x0,24² hochflexibel SK

High flexible bus-cable for profibus
for drag chain application 1x2x0,24²

APPLICATION

The cable can be used as connecting cable in general machinery construction. It is used as connecting cable between bus segments. Cost-efficient plant and machinery wiring is the great advantage of bus technology. Only the information-related component responds to the signal and processes it. Approved for usage acc. to euroclass classification Fca.

STANDARDS

IEC 61158-2 ; DIN 19245 T3 ; EN 50170

CONSTRUCTION

Conductor: copper wire, flex, bare, AWG 24/19

Core insulation: FS-PE

Core diameter: 2,50 ± 0,05 mm

Core identification: red, green

Screening: Al/PETP compound foil
tinned copper wire braid

Sheath material: PUR FHF

Sheath color: violett, RAL 4001

BEHAVIOR UNDER FIRE CONDITIONS

EN 60332-1-2 ; IEC 60754-2 ; UL AWM 21586 ;

UL AWM 21164

EN 13501-6 class Fca

CHEMICAL PROPERTIES

RoHS 2011/65/EU ; IEC 60811-2-1 (IRM 902, 4h bei 70°C)

UV-resistant

ELECTRICAL CHARACTERISTICS

| | |
|-----------------------------------|----------------------------|
| loop resistance max. | max. 150 Ω / km |
| Insulation resistance min. | min. 5 GΩ x km at +20°C |
| Operating capacity | nom. 30 nF / km |
| Impedance | 150 Ω ± 15 Ω |
| Test voltage | 1000 V / AC |
| Nominal voltage U ₀ /U | 125 V |
| Coupling attenuation | > 80 dB |
| Coupling resistance | < 20 mΩ/m at 10MHz |

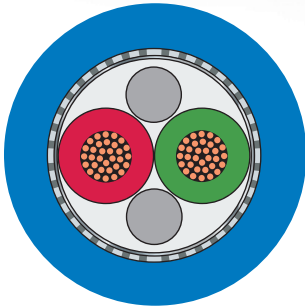
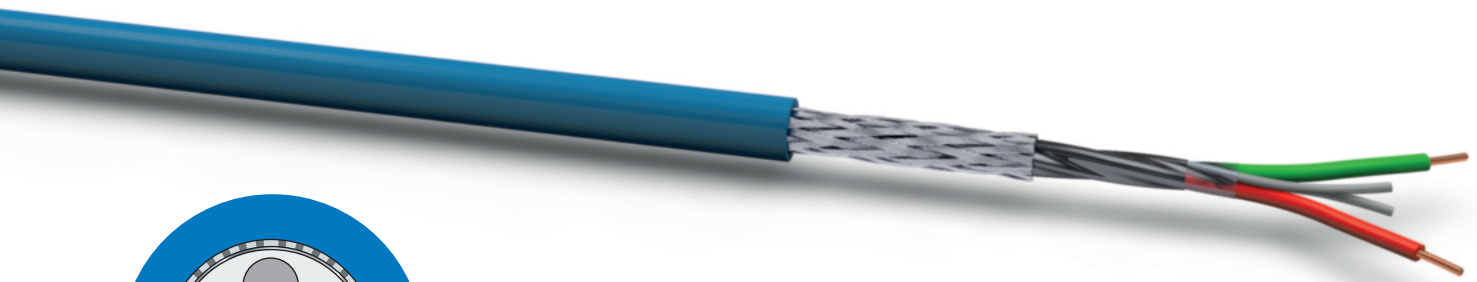
THERMAL & MECHANICAL PROPERTIES

| | |
|--------------------------------|----------------|
| Temperature range stationary | -30°C to +80°C |
| Temperature range during inst. | -10°C to +50°C |
| min. bending radius installed | 5 x diameter |
| min. bending radius moved | 10 x diameter |
| min. bending radius chain | 10 x diameter |
| max. bending cycles | > 4 Mio. |
| Maximum traction | 100N |

| Dimension | Diameter appr.mm | Cable weight appr.kg/km | Copper index kg/km | Article number |
|-----------|---------------------|----------------------------|-----------------------|----------------|
| AWG24/19 | 8.0 | 64 | 28 | |

Version: 10/2022

We reserve changes which serve technical progress • Price upon quantity-specific request



VOKA PROFIBUS 1x2x1,00 PA

Bus-cable for profibus PA
Permanent indoor installation 1x2x1,00

APPLICATION

The cable provides a cost-efficient solution for connecting various components in automation of sensors/actuators in process automation (PA). The cable is applicable for fixed installation in dry and moist rooms. Approved for usage acc. to euroclass classification Fca.

STANDARDS

IEC 61158-2 ; DIN 19245 T3 ; EN 50170

CONSTRUCTION

Conductor: copper strand, bare VDE cl. 5
Core insulation: FS-PE
Core diameter: 2,50 ± 0,05 mm
Core identification: red, green
Screening: tinned copper wire braid 0.10
Sheath material: Special PVC
Sheath color: blue, RAL 5015

BEHAVIOR UNDER FIRE CONDITIONS

EN 60332-1-2 ; UL AWM 2571 ; UL AWM 21694
EN 13501-6 class Fca

CHEMICAL PROPERTIES

RoHS 2011/65/EU

ELECTRICAL CHARACTERISTICS

| | |
|-----------------------------------|----------------------------|
| loop resistance max. | max. 44 Ω / km |
| Insulation resistance min. | min. 1 GΩ x km at +20°C |
| Operating capacity | nom. 50 nF / km |
| Impedance | 100 Ω ± 20 Ω |
| Test voltage | 1000 V / AC |
| Nominal voltage U ₀ /U | 125 V |
| Coupling attenuation | > 80 dB |
| Coupling resistance | < 20 mΩ/m at 10MHz |

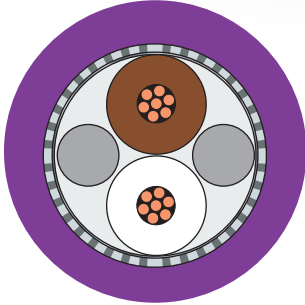
THERMAL & MECHANICAL PROPERTIES

| | |
|--------------------------------|----------------|
| Temperature range stationary | -20°C to +70°C |
| Temperature range during inst. | 0°C to +50°C |
| min. bending radius installed | 6 x diameter |
| min. bending radius moved | 12 x diameter |
| Maximum traction | 120N |

| Dimension | Diameter appr.mm | Cable weight appr.kg/km | Copper index kg/km | Article number |
|-----------|---------------------|----------------------------|-----------------------|----------------|
| - | 8.0 | 73 | 45 | |

Version: 10/2019

We reserve changes which serve technical progress • Price upon quantity-specific request



VOKA CAN Bus 1x2x0,22²

Bus-cable for fieldbus-system
for indoor application 1x2x0,22²

APPLICATION

Controller Area Network (CAN) serves as variable fieldbus system for industry. In automation complex sensors, actuators and control units are interconnected. The cable is applicable for fixed installation in dry and moist rooms. Approved for usage acc. to euroclass classification Fca.

STANDARDS

ISO 11898 ; EN 50170

CONSTRUCTION

Conductor: copper strand, bare, AWG 24/7

Core insulation: FS-PE

Core diameter: 1,60 ± 0,05 mm

Core identification: white, brown

Screening: tinned copper wire braid 0.10

Sheath material: Special PVC

Sheath color: violett, RAL 4001

BEHAVIOR UNDER FIRE CONDITIONS

EN 60332-1-2 ; UL 444 CMX

UL AWM 21695 ; UL AWM 21694

EN 13501-6 class Fca

CHEMICAL PROPERTIES

RoHS 2011/65/EU

ELECTRICAL CHARACTERISTICS

| | |
|-----------------------------------|----------------------------|
| loop resistance max. | max. 175 Ω / km |
| Insulation resistance min. | min. 1 GΩ x km at +20°C |
| Operating capacity | nom. 40 nF / km |
| Impetance | 120 Ω ± 18 Ω |
| Test voltage | 1500 V / AC |
| Nominal voltage U ₀ /U | 125 V |
| NVP | nom. 0,76 c |
| Signal delay | max. 440 ns/100m |
| Coupling resistance | < 250 mΩ/m at 30MHz |

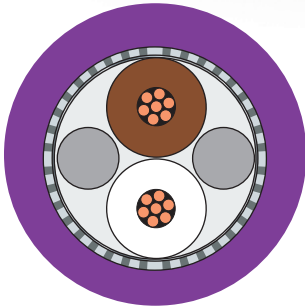
THERMAI & MECHANICAI PROPERTIES

| | |
|--------------------------------|----------------|
| Temperature range stationary | -30°C to +70°C |
| Temperature range during inst. | 0°C to +50°C |
| min. bending radius installed | 5x diameter |
| min. bending radius moved | 10 x diameter |
| Maximum traction | 100N |

| Dimension | Diameter appr.mm | Cable weight appr.kg/km | Copper index kg/km | Article number |
|-------------|---------------------|----------------------------|-----------------------|----------------|
| 1x2xAWG24/7 | 6.0 | 42 | 16.7 | |

Version: 08/2025

We reserve changes which serve technical progress • Price upon quantity-specific request



VOKA CAN Bus 1x2x0,34²

Bus-cable for fieldbus-system CAN
for indoor application 1x2x0,34²

APPLICATION

Controller Area Network (CAN) serves as variable fieldbus system for industry. In automation complex sensors, actuators and control units are interconnected. The cable is applicable for fixed installation in dry and moist rooms. Approved for usage acc. to euroclass classification Fca.

STANDARDS

ISO 11898 ; EN 50170

CONSTRUCTION

- Conductor:** copper strand, bare, AWG 22/7
- Core insulation:** FS-PE
- Core diameter:** 2,00 ± 0,05 mm
- Core identification:** white, brown
- Screening:** tinned copper wire braid 0.10
- Sheath material:** Special PVC
- Sheath color:** violett, RAL 4001

BEHAVIOR UNDER FIRE CONDITIONS

EN 60332-1-2 ; UL 444 CMX
UL AWM 21695 ; UL AWM 21694
EN 13501-6 class Fca

CHEMICAL PROPERTIES

RoHS 2011/65/EU

ELECTRICAL CHARACTERISTICS

| | |
|-----------------------------------|----------------------------|
| loop resistance max. | max. 115 Ω / km |
| Insulation resistance min. | min. 1 GΩ x km at +20°C |
| Operating capacity | nom. 40 nF / km |
| Impetance | 120 Ω ± 18 Ω |
| Test voltage | 1500 V / AC |
| Nominal voltage U ₀ /U | 125 V |
| NVP | nom. 0,76 c |
| Signal delay | max. 440 ns/100m |
| Coupling resistance | < 250 mΩ/m at 30MHz |

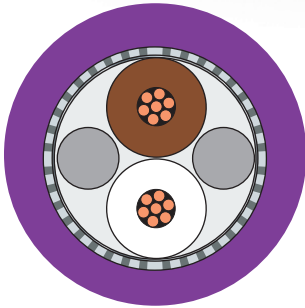
THERMAI & MECHANICAI PROPERTIES

| | |
|--------------------------------|----------------|
| Temperature range stationary | -30°C to +70°C |
| Temperature range during inst. | 0°C to +50°C |
| min. bending radius installed | 5 x diameter |
| min. bending radius moved | 10 x diameter |
| Maximum traction | 120N |

| Dimension | Diameter appr.mm | Cable weight appr.kg/km | Copper index kg/km | Article number |
|-------------|---------------------|----------------------------|-----------------------|----------------|
| 1x2xAWG22/7 | 6.8 | 55 | 21 | |

Version: 08/2025

We reserve changes which serve technical progress • Price upon quantity-specific request



VOKA CAN Bus 1x2x0,50²

Bus-cable for fieldbus-system CAN
for indoor application 1x2x0,50²

APPLICATION

Controller Area Network (CAN) serves as variable fieldbus system for industry. In automation complex sensors, actuators and control units are interconnected. The cable is applicable for fixed installation in dry and moist rooms. Approved for usage acc. to euroclass classification Fca.

STANDARDS

ISO 11898 ; EN 50170

CONSTRUCTION

Conductor: copper strand, bare, AWG 20/7

Core insulation: FS-PE

Core diameter: 2,40 ± 0,05 mm

Core identification: white, brown

Screening: tinned copper wire braid

Sheath material: Special PVC

Sheath color: violett, RAL 4001

BEHAVIOR UNDER FIRE CONDITIONS

EN 60332-1-2 ; UL 444 CMX

UL AWM 21695 ; UL AWM 21694

EN 13501-6 class Fca

CHEMICAL PROPERTIES

RoHS 2011/65/EU

ELECTRICAL CHARACTERISTICS

| | |
|-----------------------------------|----------------------------|
| loop resistance max. | max. 79 Ω / km |
| Insulation resistance min. | min. 1 GΩ x km at +20°C |
| Operating capacity | nom. 40 nF / km |
| Impetance | 120 Ω ± 18 Ω |
| Test voltage | 1500 V / AC |
| Nominal voltage U ₀ /U | 125 V |
| NVP | nom. 0,76 c |
| Signal delay | max. 440 ns/100m |
| Coupling resistance | < 250 mΩ/m at 30MHz |

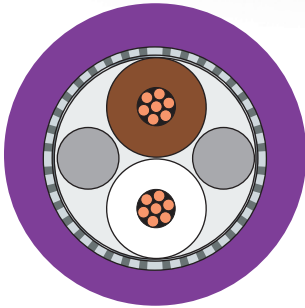
THERMAI & MECHANICAI PROPERTIES

| | |
|--------------------------------|----------------|
| Temperature range stationary | -30°C to +70°C |
| Temperature range during inst. | 0°C to +50°C |
| min. bending radius installed | 5 x diameter |
| min. bending radius moved | 10 x diameter |
| Maximum traction | 140N |

| Dimension | Diameter appr.mm | Cable weight appr.kg/km | Copper index kg/km | Article number |
|-------------|---------------------|----------------------------|-----------------------|----------------|
| 1x2xAWG20/7 | 7.5 | 90 | 41.3 | |

Version: 08/2025

We reserve changes which serve technical progress • Price upon quantity-specific request



VOKA CAN Bus 1x2x0,75²

Bus-cable for fieldbus-system CAN
for indoor application 1x2x0,75²

APPLICATION

Controller Area Network (CAN) serves as variable fieldbus system for industry. In automation complex sensors, actuators and control units are interconnected. The cable is applicable for fixed installation in dry and moist rooms. Approved for usage acc. to euroclass classification Fca.

STANDARDS

ISO 11898 ; EN 50170

CONSTRUCTION

- Conductor:** copper strand, bare
- Core insulation:** FS-PE
- Core diameter:** 3,00 ± 0,05 mm
- Core identification:** white, brown
- Screening:** tinned copper wire braid 0.10
- Sheath material:** Special PVC
- Sheath color:** violett, RAL 4001

BEHAVIOR UNDER FIRE CONDITIONS

EN 60332-1-2 ; UL 444 CMX
UL AWM 21695 ; UL AWM 21694
EN 13501-6 class Fca

CHEMICAL PROPERTIES

RoHS 2011/65/EU

ELECTRICAL CHARACTERISTICS

| | |
|-----------------------------------|----------------------------|
| loop resistance max. | max. 52 Ω / km |
| Insulation resistance min. | min. 1 GΩ x km at +20°C |
| Operating capacity | nom. 40 nF / km |
| Impetance | 120 Ω ± 18 Ω |
| Test voltage | 1500 V / AC |
| Nominal voltage U ₀ /U | 125 V |
| NVP | nom. 0,76 c |
| Signal delay | max. 440 ns/100m |
| Coupling resistance | < 250 mΩ/m at 30MHz |

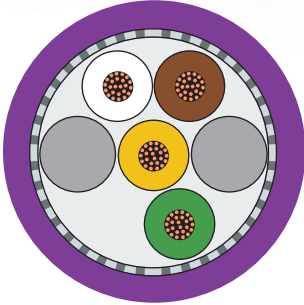
THERMAI & MECHANICAI PROPERTIES

| | |
|--------------------------------|----------------|
| Temperature range stationary | -30°C to +70°C |
| Temperature range during inst. | 0°C to +50°C |
| min. bending radius installed | 5 x diameter |
| min. bending radius moved | 10 x diameter |
| Maximum traction | 160N |

| Dimension | Diameter appr.mm | Cable weight appr.kg/km | Copper index kg/km | Article number |
|--------------|---------------------|----------------------------|-----------------------|----------------|
| 1x2xVDE KI.5 | 8.7 | 108 | 52.7 | |

Version: 08/2025

We reserve changes which serve technical progress • Price upon quantity-specific request



VOKA CAN Bus 2x2x0,22²

Bus-cable for fieldbus-system CAN
for indoor application 2x2x0,22²

APPLICATION

Controller Area Network (CAN) serves as variable fieldbus system for industry. In automation complex sensors, actuators and control units are interconnected. The cable is applicable for fixed installation in dry and moist rooms. Approved for usage acc. to euroclass classification Fca.

STANDARDS

ISO 11898 ; EN 50170

CONSTRUCTION

Conductor: copper strand, bare, AWG 24/7

Core insulation: FS-PE

Core diameter: 1,45 ± 0,05 mm

Core identification: wh, bn, ye, gn

Screening: tinned copper wire braid 0.10

Sheath material: Special PVC

Sheath color: violett, RAL 4001

BEHAVIOR UNDER FIRE CONDITIONS

EN 60332-1-2 ; UL 444 CMX

UL AWM 21695 ; UL AWM 21694

EN 13501-6 class Fca

CHEMICAL PROPERTIES

RoHS 2011/65/EU

ELECTRICAL CHARACTERISTICS

| | |
|-----------------------------------|----------------------------|
| loop resistance max. | max. 175 Ω / km |
| Insulation resistance min. | min. 1 GΩ x km at +20°C |
| Operating capacity | nom. 40 nF / km |
| Impetance | 120 Ω ± 18 Ω |
| Test voltage | 1500 V / AC |
| Nominal voltage U ₀ /U | 125 V |
| NVP | nom. 0,76 c |
| Signal delay | max. 440 ns/100m |
| Coupling resistance | < 250 mΩ/m at 30MHz |

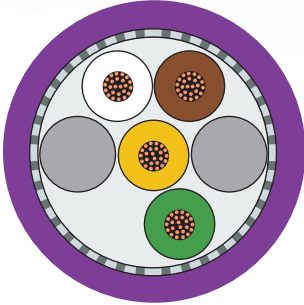
THERMAI & MECHANICAI PROPERTIES

| | |
|--------------------------------|----------------|
| Temperature range stationary | -30°C to +70°C |
| Temperature range during inst. | 0°C to +50°C |
| min. bending radius installed | 5 x diameter |
| min. bending radius moved | 10 x diameter |
| Maximum traction | 120N |

| Dimension | Diameter appr.mm | Cable weight appr.kg/km | Copper index kg/km | Article number |
|-------------|---------------------|----------------------------|-----------------------|----------------|
| 2x2xAWG24/7 | 7.6 | 68 | 34.8 | |

Version: 08/2025

We reserve changes which serve technical progress • Price upon quantity-specific request



VOKA CAN Bus 2x2x0,34²

Bus-cable for fieldbus-system CAN
for indoor application 2x2x0,34²

APPLICATION

Controller Area Network (CAN) serves as variable fieldbus system for industry. In automation complex sensors, actuators and control units are interconnected. The cable is applicable for fixed installation in dry and moist rooms. Approved for usage acc. to euroclass classification Fca.

STANDARDS

ISO 11898 ; EN 50170

CONSTRUCTION

Conductor: copper strand, bare, AWG 22/7

Core insulation: FS-PE

Core diameter: 1,70 ± 0,05 mm

Core identification: wh, bn, ye, gn

Screening: tinned copper wire braid 0.10

Sheath material: Special PVC

Sheath color: violett, RAL 4001

BEHAVIOR UNDER FIRE CONDITIONS

EN 60332-1-2 ; UL 444 CMX

UL AWM 21695 ; UL AWM 21694

EN 13501-6 class Fca

CHEMICAL PROPERTIES

RoHS 2011/65/EU

ELECTRICAL CHARACTERISTICS

| | |
|-----------------------------------|----------------------------|
| loop resistance max. | max. 115 Ω / km |
| Insulation resistance min. | min. 1 GΩ x km at +20°C |
| Operating capacity | nom. 40 nF / km |
| Impetance | 120 Ω ± 18 Ω |
| Test voltage | 1500 V / AC |
| Nominal voltage U ₀ /U | 125 V |
| NVP | nom. 0,76 c |
| Signal delay | max. 440 ns/100m |
| Coupling resistance | < 250 mΩ/m at 30MHz |

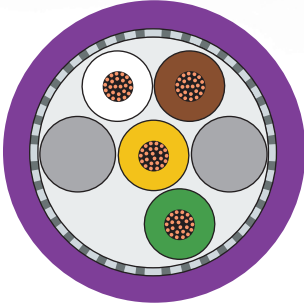
THERMAI & MECHANICAI PROPERTIES

| | |
|--------------------------------|----------------|
| Temperature range stationary | -30°C to +70°C |
| Temperature range during inst. | 0°C to +50°C |
| min. bending radius installed | 5 x diameter |
| min. bending radius moved | 10 x diameter |
| Maximum traction | 140N |

| Dimension | Diameter appr.mm | Cable weight appr.kg/km | Copper index kg/km | Article number |
|-------------|---------------------|----------------------------|-----------------------|----------------|
| 2x2xAWG22/7 | 8.5 | 88 | 46.4 | |

Version: 08/2025

We reserve changes which serve technical progress • Price upon quantity-specific request



VOKA CAN Bus 2x2x0,50²

Bus-cable for fieldbus-system CAN
for indoor application 2x2x0,50²

APPLICATION

Controller Area Network (CAN) serves as variable fieldbus system for industry. In automation complex sensors, actuators and control units are interconnected. The cable is applicable for fixed installation in dry and moist rooms. Approved for usage acc. to euroclass classification Fca.

STANDARDS

ISO 11898 ; EN 50170

CONSTRUCTION

Conductor: copper strand, bare, AWG 20/7

Core insulation: FS-PE

Core diameter: 2,10 ± 0,05 mm

Core identification: wh, bn, ye, gn

Screening: tinned copper wire braid 0.10

Sheath material: Special PVC

Sheath color: violett, RAL 4001

BEHAVIOR UNDER FIRE CONDITIONS

EN 60332-1-2 ; UL 444 CMX

UL AWM 21695 ; UL AWM 21694

EN 13501-6 class Fca

CHEMICAL PROPERTIES

RoHS 2011/65/EU

ELECTRICAL CHARACTERISTICS

| | |
|-----------------------------------|----------------------------|
| loop resistance max. | max. 79 Ω / km |
| Insulation resistance min. | min. 1 GΩ x km at +20°C |
| Operating capacity | nom. 40 nF / km |
| Impetance | 120 Ω ± 18 Ω |
| Test voltage | 1500 V / AC |
| Nominal voltage U ₀ /U | 125 V |
| NVP | nom. 0,76 c |
| Signal delay | max. 440 ns/100m |
| Coupling resistance | < 250 mΩ/m at 30MHz |

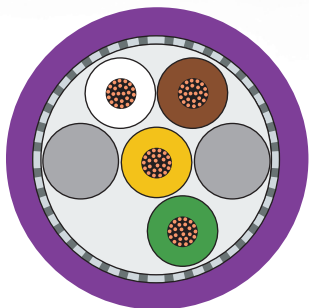
THERMAI & MECHANICAI PROPERTIES

| | |
|--------------------------------|----------------|
| Temperature range stationary | -30°C to +70°C |
| Temperature range during inst. | 0°C to +50°C |
| min. bending radius installed | 5 x diameter |
| min. bending radius moved | 10 x diameter |
| Maximum traction | 150N |

| Dimension | Diameter appr.mm | Cable weight appr.kg/km | Copper index kg/km | Article number |
|-------------|---------------------|----------------------------|-----------------------|----------------|
| 2x2xAWG20/7 | 9.7 | 106 | 59.4 | |

Version: 08/2025

We reserve changes which serve technical progress • Price upon quantity-specific request



VOKA CAN Bus 2x2x0,75²

Bus-cable for fieldbus-system CAN
for indoor application 2x2x0,75²

APPLICATION

Controller Area Network (CAN) serves as variable fieldbus system for industry. In automation complex sensors, actuators and control units are interconnected. The cable is applicable for fixed installation in dry and moist rooms. Approved for usage acc. to euroclass classification Fca.

STANDARDS

ISO 11898 ; EN 50170

CONSTRUCTION

Conductor: copper strand, bare, VDE cl. 5

Core insulation: FS-PE

Core diameter: 2,80 ± 0,05 mm

Core identification: wh, bn, ye, gn

Screening: tinned copper wire braid 0.10

Sheath material: Special PVC

Sheath color: violett, RAL 4001

BEHAVIOR UNDER FIRE CONDITIONS

EN 60332-1-2 ; UL 444 CMX

UL AWM 21695 ; UL AWM 21694

EN 13501-6 class Fca

CHEMICAL PROPERTIES

RoHS 2011/65/EU

ELECTRICAL CHARACTERISTICS

| | |
|-----------------------------------|----------------------------|
| loop resistance max. | max. 52 Ω / km |
| Insulation resistance min. | min. 1 GΩ x km at +20°C |
| Operating capacity | nom. 40 nF / km |
| Impetance | 120 Ω ± 18 Ω |
| Test voltage | 1500 V / AC |
| Nominal voltage U ₀ /U | 125 V |
| NVP | nom. 0,76 c |
| Signal delay | max. 440 ns/100m |
| Coupling resistance | < 250 mΩ/m at 30MHz |

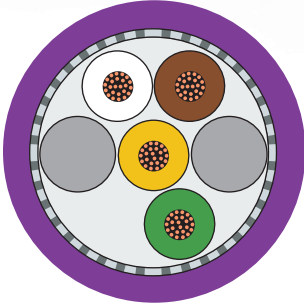
THERMAI & MECHANICAI PROPERTIES

| | |
|--------------------------------|----------------|
| Temperature range stationary | -30°C to +70°C |
| Temperature range during inst. | 0°C bis +50°C |
| min. bending radius installed | 5 x diameter |
| min. bending radius moved | 10 x diameter |
| Maximum traction | 180N |

| Dimension | Diameter appr.mm | Cable weight appr.kg/km | Copper index kg/km | Article number |
|--------------|---------------------|----------------------------|-----------------------|----------------|
| 1x2xVDE Kl.5 | 12.4 | 142 | 80.6 | |

Version: 08/2025

We reserve changes which serve technical progress • Price upon quantity-specific request



VOKA CAN Bus 2x2x0,75²

Bus-cable for fieldbus-system CAN
for indoor application 2x2x0,75²

APPLICATION

Controller Area Network (CAN) serves as variable fieldbus system for industry. In automation complex sensors, actuators and control units are interconnected. The cable is applicable for fixed installation in dry and moist rooms. Approved for usage acc. to euroclass classification Fca.

STANDARDS

ISO 11898 ; EN 50170

CONSTRUCTION

Conductor: copper strand, bare, VDE cl. 5

Core insulation: FS-PE

Core diameter: 2,80 ± 0,05 mm

Core identification: wh, bn, ye, gn

Screening: tinned copper wire braid 0.10

Sheath material: Special PVC

Sheath color: violett, RAL 4001

BEHAVIOR UNDER FIRE CONDITIONS

EN 60332-1-2 ; UL 444 CMX

UL AWM 2571 ; UL AWM 21694

EN 13501-6 class Fca

CHEMICAL PROPERTIES

RoHS 2011/65/EU

ELECTRICAL CHARACTERISTICS

| | |
|-----------------------------------|----------------------------|
| loop resistance max. | max. 52 Ω / km |
| Insulation resistance min. | min. 1 GΩ x km at +20°C |
| Operating capacity | nom. 40 nF / km |
| Impedance | 120 Ω ± 18 Ω |
| Test voltage | 1500 V / AC |
| Nominal voltage U ₀ /U | 125 V |
| NVP | nom. 0,76 c |
| Signal delay | max. 440 ns/100m |
| Coupling resistance | < 250 mΩ/m at 30MHz |

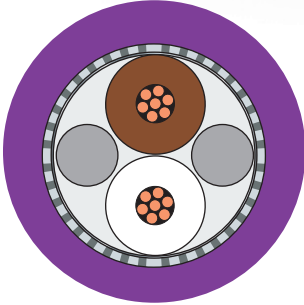
THERMAL & MECHANICAL PROPERTIES

| | |
|--------------------------------|----------------|
| Temperature range stationary | -25°C to +70°C |
| Temperature range during inst. | 0°C bis +50°C |
| min. bending radius installed | 5 x diameter |
| min. bending radius moved | 10 x diameter |
| Maximum traction | 180N |

| Dimension | Diameter appr.mm | Cable weight appr.kg/km | Copper index kg/km | Article number |
|-----------|---------------------|----------------------------|-----------------------|----------------|
| 2x2x0,75 | 11,8 | 167 | 72 | |

Version: 06/2025

We reserve changes which serve technical progress • Price upon quantity-specific request



VOKA CAN Bus 1x2x0,25² high flexibel PUR

Bus-cable for fieldbus-system FDP
High flexible 1x2x0,25²

APPLICATION

Controller Area Network (CAN) serves as variable fieldbus system for industry. In automation complex sensors, actuators and control units are interconnected. The cable is applicable for high flexible applications
Approved for usage acc. to euroclass classification Fca.

STANDARDS

ISO 11898 ; EN 50170

CONSTRUCTION

Conductor: copper strand, bare, 32x0,10
Core insulation: FS-PE
Core diameter: 1,70 ± 0,05 mm
Core identification: white, brown
Screening: tinned copper wire braid
Sheath material: PUR FHF
Sheath color: violett, RAL 4001

BEHAVIOR UNDER FIRE CONDITIONS

EN 60332-1-2 ; IEC 60754-2 ; UL AWM 21586
EN 13501-6 class Fca

CHEMICAL PROPERTIES

RoHS 2011/65/EU ; IEC 60811-2-1 (IRM 902, 4h at 70°C)
UV-resistant

ELECTRICAL CHARACTERISTICS

| | |
|-----------------------------------|----------------------------|
| loop resistance max. | max. 160 Ω / km |
| Insulation resistance min. | min. 1 GΩ x km at +20°C |
| Operating capacity | nom. 40 nF / km |
| Impetance | 120 Ω ± 18 Ω |
| Test voltage | 1500 V / AC |
| Nominal voltage U ₀ /U | 125 V |
| NVP | nom. 0,76 c |
| Signal delay | max. 440 ns/100m |
| Coupling resistance | < 250 mΩ/m at 30MHz |

THERMAI & MECHANICAI PROPERTIES

| | |
|--------------------------------|----------------|
| Temperature range stationary | -30°C to +70°C |
| Temperature range during inst. | 0°C to +50°C |
| min. bending radius installed | 8 x diameter |
| min. bending radius moved | 15 x diameter |
| min. bending radius chain | 15 x diameter |
| max. bending cycles | > 4 Mio. |
| Maximum traction | 100N |

| Dimension | Diameter appr.mm | Cable weight appr.kg/km | Copper index kg/km | Article number |
|-----------------------|---------------------|----------------------------|-----------------------|----------------|
| 1x2x0.25 ² | 6.6 | 40 | 17.5 | |

Version: 02/2025

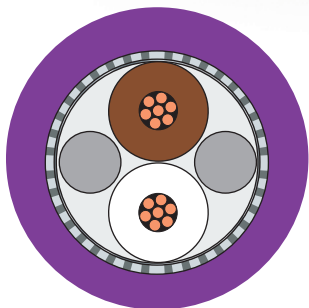
We reserve changes which serve technical progress • Price upon quantity-specific request

Transmission characteristics

The stated performance data are characteristic measurements.

| f (MHz) | Attenuation (dB/100m) | NEXT (dB) | ACR (dB/100m) | EL-FEXT (dB/100m) | RL (dB) |
|------------|--------------------------|--------------|------------------|----------------------|------------|
| | NOM | NOM | NOM | NOM | NOM |
| 0,1 | 0,6 | | | | |
| 1 | 1,7 | | | | |
| 5 | 3,9 | | | | |
| 10 | 5,6 | | | | |
| 20 | 8,1 | | | | |
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VOKA CAN Bus 1x2x0,34² high flexible PUR

Bus-cable for fieldbus-system CAN FDP
High flexible 1x2x0,34²

APPLICATION

Controller Area Network (CAN) serves as variable fieldbus system for industry. In automation complex sensors, actuators and control units are interconnected. The cable is applicable for high flexible applications
Approved for usage acc. to euroclass classification Fca.

STANDARDS

ISO 11898 ; EN 50170

CONSTRUCTION

Conductor: copper strand, bare, 42x0,10

Core insulation: FS-PE

Core diameter: 2,00 ± 0,05 mm

Core identification: white, brown

Screening: tinned copper wire braid

Sheath material: PUR FHF

Sheath color: violett, RAL 4001

BEHAVIOR UNDER FIRE CONDITIONS

EN 60332-1-2 ; IEC 60754-2 ; UL AWM 21586

EN 13501-6 class Fca

CHEMICAL PROPERTIES

RoHS 2011/65/EU ; IEC 60811-2-1 (IRM 902, 4h by 70°C)

UV-resistant

ELECTRICAL CHARACTERISTICS

| | |
|-----------------------------------|----------------------------|
| loop resistance max. | max. 116 Ω / km |
| Insulation resistance min. | min. 1 GΩ x km at +20°C |
| Operating capacity | nom. 40 nF / km |
| Impedance | 120 Ω ± 18 Ω |
| Test voltage | 1500 V / AC |
| Nominal voltage U ₀ /U | 125 V |
| NVP | nom. 0,76 c |
| Signal delay | max. 440 ns/100m |
| Coupling resistance | < 250 mΩ/m at 30MHz |

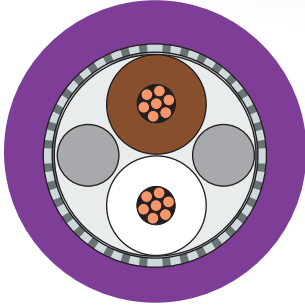
THERMAL & MECHANICAL PROPERTIES

| | |
|--------------------------------|----------------|
| Temperature range stationary | -30°C to +70°C |
| Temperature range during inst. | 0°C to +50°C |
| min. bending radius installed | 8 x diameter |
| min. bending radius moved | 15 x diameter |
| min. bending radius chain | 15 x diameter |
| Maximum traction | 120N |

| Dimension | Diameter appr.mm | Cable weight appr.kg/km | Copper index kg/km | Article number |
|-----------------------|---------------------|----------------------------|-----------------------|----------------|
| 1x2x0,34 ² | 6.8 | 60 | 32.8 | |

Version: 02/2025

We reserve changes which serve technical progress • Price upon quantity-specific request



VOKA CAN Bus 1x2x0,50² high flexible PUR

Bus-cable für fieldbus-system CAN FDP
High flexible 1x20,50²

APPLICATION

Controller Area Network (CAN) serves as variable fieldbus system for industry. In automation complex sensors, actuators and control units are interconnected. The cable is applicable for high flexible applications
Approved for usage acc. to euroclass classification Fca.

STANDARDS

ISO 11898 ; EN 50170

CONSTRUCTION

Conductor: copper strand, bare, 64x0,10
Core insulation: FS-PE
Core diameter: 2,40 ± 0,05 mm
Core identification: white, brown
Screening: tinned copper wire braid
Sheath material: PUR FHF
Sheath color: violett, RAL 4001

BEHAVIOR UNDER FIRE CONDITIONS

EN 60332-1-2 ; IEC 60754-2 ; UL AWM 21586
EN 13501-6 class Fca

CHEMICAL PROPERTIES

RoHS 2011/65/EU ; IEC 60811-2-1 (IRM 902, 4h bei 70°C)
UV-resistant

ELECTRICAL CHARACTERISTICS

| | |
|-----------------------------------|----------------------------|
| loop resistance max. | max. 79 Ω / km |
| Insulation resistance min. | min. 1 GΩ x km at +20°C |
| Operating capacity | nom. 40 nF / km |
| Impedance | 120 Ω ± 18 Ω |
| Test voltage | 1500 V / AC |
| Nominal voltage U ₀ /U | 125 V |
| NVP | nom. 0,76 c |
| Signal delay | max. 440 ns/100m |
| Coupling resistance | < 250 mΩ/m at 30MHz |

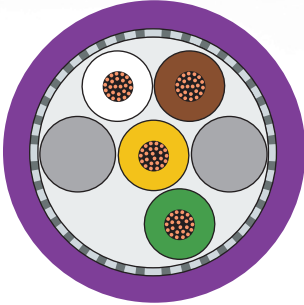
THERMAL & MECHANICAL PROPERTIES

| | |
|--------------------------------|----------------|
| Temperature range stationary | -30°C to +70°C |
| Temperature range during inst. | 0°C to +50°C |
| min. bending radius installed | 8 x diameter |
| min. bending radius moved | 15 x diameter |
| min. bending radius chain | 15 x diameter |
| Maximum traction | 140N |

| Dimension | Diameter appr.mm | Cable weight appr.kg/km | Copper index kg/km | Article number |
|-----------------------|---------------------|----------------------------|-----------------------|----------------|
| 1x2x0.50 ² | 8.0 | 74 | 41.9 | |

Version: 02/2025

We reserve changes which serve technical progress • Price upon quantity-specific request



VOKA CAN Bus 2x2x0,25² high flexible PUR

Bus-cable CAN fieldbus-system FDP
High flexible 2x2x0,25²

APPLICATION

Controller Area Network (CAN) serves as variable fieldbus system for industry. In automation complex sensors, actuators and control units are interconnected. The cable is applicable for high flexible applications. Approved for usage acc. to euroclass classification Fca.

STANDARDS

ISO 11898 ; EN 50170

CONSTRUCTION

Conductor: copper strand, bare, 32x0,10

Core insulation: FS-PE

Core diameter: 1,55 ± 0,05 mm

Core identification: wh, bn, gn, ye

Screening: tinned copper wire braid 0,10

Sheath material: PUR FHF

Sheath color: violett, RAL 4001

BEHAVIOR UNDER FIRE CONDITIONS

EN 60332-1-2 ; IEC 60754-2 ; UL AWM 21586

EN 13501-6 class Fca

CHEMICAL PROPERTIES

RoHS 2011/65/EU ; IEC 60811-2-1 (IRM 902, 4h by 70°C)

UV-resistant

ELECTRICAL CHARACTERISTICS

| | |
|-----------------------------------|----------------------------|
| loop resistance max. | max. 160 Ω / km |
| Insulation resistance min. | min. 1 GΩ x km at +20°C |
| Operating capacity | nom. 40 nF / km |
| Impetance | 120 Ω ± 18 Ω |
| Test voltage | 1500 V / AC |
| Nominal voltage U ₀ /U | 125 V |
| NVP | nom. 0,76 c |
| Signal delay | max. 440 ns/100m |
| Coupling resistance | < 250 mΩ/m at 30MHz |

THERMAI & MECHANICAI PROPERTIES

| | |
|--------------------------------|----------------|
| Temperature range stationary | -30°C to +70°C |
| Temperature range during inst. | 0°C to +50°C |
| min. bending radius installed | 8 x diameter |
| min. bending radius moved | 15 x diameter |
| min. bending radius chain | 15 x diameter |
| Maximum traction | 120N |

| Dimension | Diameter appr.mm | Cable weight appr.kg/km | Copper index kg/km | Article number |
|-----------------------|------------------|-------------------------|--------------------|----------------|
| 2x2x0.25 ² | 8.4 | 70 | 41.3 | |

Version: 02/2025

We reserve changes which serve technical progress • Price upon quantity-specific request

Transmission characteristics

The stated performance data are characteristic measurements.

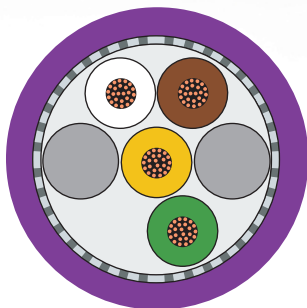
| f (MHz) | Attenuation (dB/100m) | NEXT (dB) | ACR (dB/100m) | EL-FEXT (dB/100m) | RL (dB) |
|------------|--------------------------|--------------|------------------|----------------------|------------|
| | NOM | NOM | NOM | NOM | NOM |
| 0,1 | 0,6 | | | | |
| 1 | 1,7 | | | | |
| 5 | 3,9 | | | | |
| 10 | 5,6 | | | | |
| 20 | 8,1 | | | | |
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Version: 02/2025

We reserve changes which serve technical progress • Price upon quantity-specific request





VOKA CAN Bus 2x2x0,34² high flexible PUR

Bus-cable CAN fieldbus-system FDP
high flexible 2x2x0,34²

APPLICATION

Controller Area Network (CAN) serves as variable fieldbus system for industry. In automation complex sensors, actuators and control units are interconnected. The cable is applicable for high flexible applications. Approved for usage acc. to euroclass classification Fca.

STANDARDS

ISO 11898 ; EN 50170

CONSTRUCTION

Conductor: copper strand, bare, 42x0,10

Core insulation: FS-PE

Core diameter: 1,70 ± 0,05 mm

Core identification: wh, bn, gn, ye

Screening: tinned copper wire braid

Sheath material: PUR FHF

Sheath color: violett, RAL 4001

BEHAVIOR UNDER FIRE CONDITIONS

EN 60332-1-2 ; IEC 60754-2 ; UL AWM 21586

EN 13501-6 class Fca

CHEMICAL PROPERTIES

RoHS 2011/65/EU ; IEC 60811-2-1 (IRM 902, 4h bei 70°C)

UV-resistant

ELECTRICAL CHARACTERISTICS

| | |
|-----------------------------------|----------------------------|
| loop resistance max. | max. 116 Ω / km |
| Insulation resistance min. | min. 1 GΩ x km at +20°C |
| Operating capacity | nom. 40 nF / km |
| Impetance | 120 Ω ± 18 Ω |
| Test voltage | 1500 V / AC |
| Nominal voltage U ₀ /U | 125 V |
| NVP | nom. 0,76 c |
| Signal delay | max. 440 ns/100m |
| Coupling resistance | < 250 mΩ/m at 30MHz |

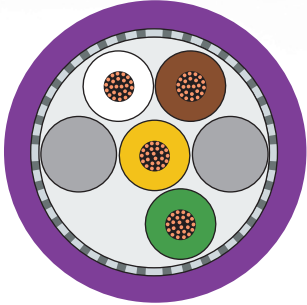
THERMAI & MECHANICAI PROPERTIES

| | |
|--------------------------------|----------------|
| Temperature range stationary | -30°C to +70°C |
| Temperature range during inst. | 0°C to +50°C |
| min. bending radius installed | 8 x diameter |
| min. bending radius moved | 15 x diameter |
| min. bending radius chain | 15 x diameter |
| Maximum traction | 140N |

| Dimension | Diameter appr.mm | Cable weight appr.kg/km | Copper index kg/km | Article number |
|-----------------------|---------------------|----------------------------|-----------------------|----------------|
| 2x2x0.34 ² | 9.6 | 88 | 52.4 | |

Version: 02/2025

We reserve changes which serve technical progress • Price upon quantity-specific request



VOKA CAN Bus 2x2x0,50² high flexible PUR

Bus-cable CAN fieldbus-system FDP
High flexible 2x2x0,50²

APPLICATION

Controller Area Network (CAN) serves as variable fieldbus system for industry. In automation complex sensors, actuators and control units are interconnected. The cable is applicable for high flexible applications
Approved for usage acc. to euroclass classification Fca.

STANDARDS

ISO 11898 ; EN 50170

CONSTRUCTION

Conductor: copper strand, bare, 64x0,10
Core insulation: FS-PE
Core diameter: 2,10 ± 0,05 mm
Core identification: wh, bn, gn, ye
Screening: tinned copper wire braid 0.10
Sheath material: PUR FHF
Sheath color: violett, RAL 4001

BEHAVIOR UNDER FIRE CONDITIONS

EN 60332-1-2 ; IEC 60754-2 ; UL AWM 21586
EN 13501-6 class Fca

CHEMICAL PROPERTIES

RoHS 2011/65/EU ; IEC 60811-2-1 (IRM 902, 4h at 70°C)
UV-resistant

ELECTRICAL CHARACTERISTICS

| | |
|-----------------------------------|----------------------------|
| loop resistance max. | max. 79 Ω / km |
| Insulation resistance min. | min. 1 GΩ x km at +20°C |
| Operating capacity | nom. 40 nF / km |
| Impetance | 120 Ω ± 18 Ω |
| Test voltage | 1500 V / AC |
| Nominal voltage U ₀ /U | 125 V |
| NVP | nom. 0,76 c |
| Signal delay | max. 440 ns/100m |
| Coupling resistance | < 250 mΩ/m at 30MHz |

THERMAI & MECHANICAI PROPERTIES

| | |
|--------------------------------|----------------|
| Temperature range stationary | -30°C to +70°C |
| Temperature range during inst. | 0°C to +50°C |
| min. bending radius installed | 8 x diameter |
| min. bending radius moved | 15 x diameter |
| min. bending radius chain | 15 x diameter |
| Maximum traction | 150N |

| Dimension | Diameter appr.mm | Cable weight appr.kg/km | Copper index kg/km | Article number |
|-----------------------|------------------|-------------------------|--------------------|----------------|
| 2x2x0.50 ² | 11.0 | 100 | 59.4 | |

Version: 02/2025

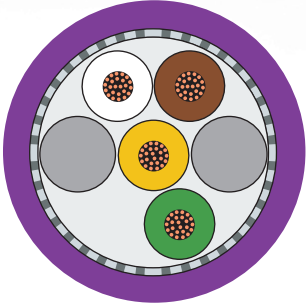
We reserve changes which serve technical progress • Price upon quantity-specific request

Transmission characteristics

The stated performance data are characteristic measurements.

| f (MHz) | Attenuation (dB/100m) | NEXT (dB) | ACR (dB/100m) | EL-FEXT (dB/100m) | RL (dB) |
|------------|--------------------------|--------------|------------------|----------------------|------------|
| | NOM | NOM | NOM | NOM | NOM |
| 0,1 | 0,3 | | | | |
| 1 | 1,1 | | | | |
| 5 | 2,8 | | | | |
| 10 | 3,9 | | | | |
| 20 | 5,7 | | | | |
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VOKA INTER Bus 1/2/3x2x0,22²

Long distance-bus (2-cores system)
indoor application 1/2/3x2x0,22²

APPLICATION

The cable provides a cost-efficient solution for connecting various components in automation equipment. The basic element is a twisted two-wire line. Elaborate parallel wiring can be avoided since all bus components are bonded over the basic element. Approved for usage acc. to euroclass classification Fca.

STANDARDS

DIN 19258 ; IEC 61158 ; Interbus-guideline V2.0

CONSTRUCTION

Conductor: copper strand, bare, AWG 24/7

Core insulation: PE

Core diameter: 1,25 ± 0,05 mm

Core identification: acc. to DIN 47100

Stranding: in pairs

Wrapping: PET foil

Screening: tinned copper wire braid

Sheath material: Special PVC

Sheath color: violett, RAL 4001

BEHAVIOR UNDER FIRE CONDITIONS

EN 60332-1-2 ; UL AWM 2571 ; UL AWM 21694

EN 13501-6 class Fca

CHEMICAL PROPERTIES

RoHS 2011/65/EU

ELECTRICAL CHARACTERISTICS

| | |
|-----------------------------------|----------------------------|
| loop resistance max. | max. 186 Ω / km |
| Insulation resistance min. | min. 5 GΩ x km at +20°C |
| Operating capacity | nom. 50 nF / km |
| Impetance | 100 Ω ± 15 Ω |
| Test voltage | 1000 V / AC |
| Nominal voltage U ₀ /U | 125 V |
| Coupling resistance | < 100 mΩ/m at 10MHz |

THERMAL & MECHANICAL PROPERTIES

| | |
|--------------------------------|----------------|
| Temperature range stationary | -30°C to +70°C |
| Temperature range during inst. | 0°C to +50°C |
| min. bending radius installed | 5 x diameter |
| min. bending radius moved | 10 x diameter |
| Maximum traction | 100N |

| Dimension | Diameter appr.mm | Cable weight appr.kg/km | Copper index kg/km | Article number |
|-------------|------------------|-------------------------|--------------------|----------------|
| 2x2xAWG24/7 | 5.0 | 28 | | |
| 3x2xAWG24/7 | 7.0 | 36.5 | | |

Version: 10/2019

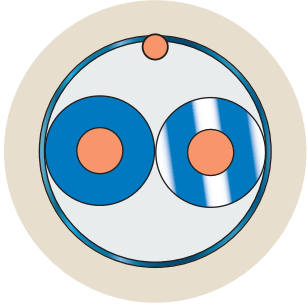
We reserve changes which serve technical progress • Price upon quantity-specific request

Transmission characteristics

The stated performance data are characteristic measurements.

| f (MHz) | Attenuation (dB/100m) | NEXT (dB) | ACR (dB/100m) | EL-FEXT (dB/100m) | RL (dB) |
|-------------------|---------------------------------|---------------------|-------------------------|-----------------------------|-------------------|
| | NOM | NOM | NOM | NOM | NOM |
| 0,256 | 1,5 | | | | |
| 0,772 | 2,4 | | | | |
| 1 | 2,7 | | | | |
| 4 | 5,2 | | | | |
| 10 | 8,4 | | | | |
| 16 | 11,2 | | | | |
| 20 | 11,9 | | | | |
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VOKA-LONWORK F/UTP 1x2xAWG22/1 FRNC

Bus-cable LON bus-system

Permanent indoor installation 1x2xAWG22/1

APPLICATION

Data for analogue and digital signal transmission in LON networks and for building automation
Approved for usage acc. to euroclass classification Fca.

STANDARDS

EN 50288-5-1 ; EN 50173 ; ISO/IEC 11801 2. edition
IEC 61156-5

CONSTRUCTION

Conductor: copper, solid, bare, AWG 22/1
Core insulation: PE
Core diameter: 1,60 ± 0,05 mm
Core identification: whbu-bu
Screening: plastic-laminated aluminium foil
Sheath material: halogen-free compound (FRNC)
Sheath color: white, RAL 9010

BEHAVIOR UNDER FIRE CONDITIONS

EN 60332-1-2 ; EN 61034 ; EN 50267 ; IEC 60754-2
IEC 61034
EN 13501-6 class Eca

CHEMICAL PROPERTIES

RoHS 2011/65/EU ; IEC 60811-2-1 (IRM 902, 4h at 70°C)

ELECTRICAL CHARACTERISTICS

| | |
|----------------------------|----------------------------|
| loop resistance max. | max. 110 Ω / km |
| Insulation resistance min. | min. 5 GΩ x km at +20°C |
| Operating capacity | nom. 48 nF / km |
| Impedance | 100 Ω ± 15 Ω |
| Test voltage | 700 V / AC |
| Nominal voltage U_0/U | 125 V |
| NVP | ca. 0,66 c |

THERMAL & MECHANICAL PROPERTIES

| | |
|--------------------------------|----------------|
| Temperature range stationary | -20°C to +75°C |
| Temperature range during inst. | 0°C to +50°C |
| min. bending radius installed | 5 x diameter |
| min. bending radius moved | 10 x diameter |
| Maximum traction | 80N |

| Dimension | Diameter appr.mm | Cable weight appr.kg/km | Copper index kg/km | Article number |
|-----------|---------------------|----------------------------|-----------------------|----------------|
| AWG22/1 | 4.6 | 27 | 9 | |

Version: 10/2019

We reserve changes which serve technical progress • Price upon quantity-specific request

Transmission characteristics

The stated performance data are characteristic measurements.

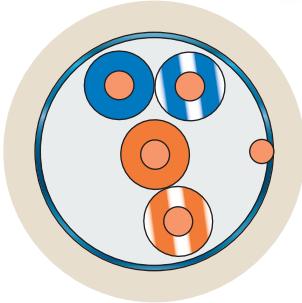
| f (MHz) | Attenuation (dB/100m) | NEXT (dB) | ACR (dB/100m) | EL-FEXT (dB/100m) | RL (dB) |
|------------|--------------------------|--------------|------------------|----------------------|------------|
| | NOM | NOM | NOM | NOM | NOM |
| 0,772 | 4,5 | | | | |
| 1 | 5,5 | | | | |
| 4 | 11,3 | | | | |
| 8 | 15 | | | | |
| 10 | 17 | | | | |
| 16 | 22 | | | | |
| 20 | 24 | | | | |
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Version: 10/2019

We reserve changes which serve technical progress • Price upon quantity-specific request





VOKA-LONWORK F/UTP 2x2xAWG22/1 FRNC

Bus-cable LON bus-system
Permanent indoor installation 2x2xAWG22/1

APPLICATION

Data cable for analogue and digital signal transmission in LON networks and for building automation.
Approved for usage acc. to euroclass classification Eca.

STANDARDS

EN 50288-5-1 ; EN 50173 ; ISO/IEC 11801 2. edition
IEC 61156-5

CONSTRUCTION

Conductor: copper, solid, bare, AWG 22/1
Core insulation: PE
Core diameter: 1,40 ± 0,05 mm
Core identification: whbu-bu, whor-or
Screening: plastic-laminated aluminium foil
Sheath material: halogen-free compound (FRNC)
Sheath color: white, RAL 9010

BEHAVIOR UNDER FIRE CONDITIONS

EN 60332-1-2 ; EN 61034 ; EN 50267 ; IEC 60754-2
IEC 61034
EN 13501-6 class Eca

CHEMICAL PROPERTIES

RoHS 2011/65/EU ; IEC 60811-2-1 (IRM 902, 4h by 70°C)

ELECTRICAL CHARACTERISTICS

| | |
|-----------------------------------|----------------------------|
| loop resistance max. | max. 110 Ω / km |
| Insulation resistance min. | min. 5 GΩ x km at +20°C |
| Operating capacity | nom. 48 nF / km |
| Impedance | 100 Ω ± 15 Ω |
| Test voltage | 700 V / AC |
| Nominal voltage U ₀ /U | 125 V |
| NVP | ca. 0,66 c |

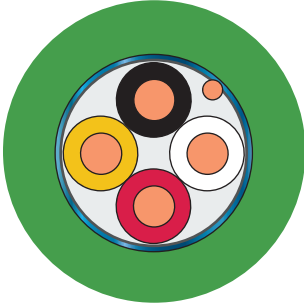
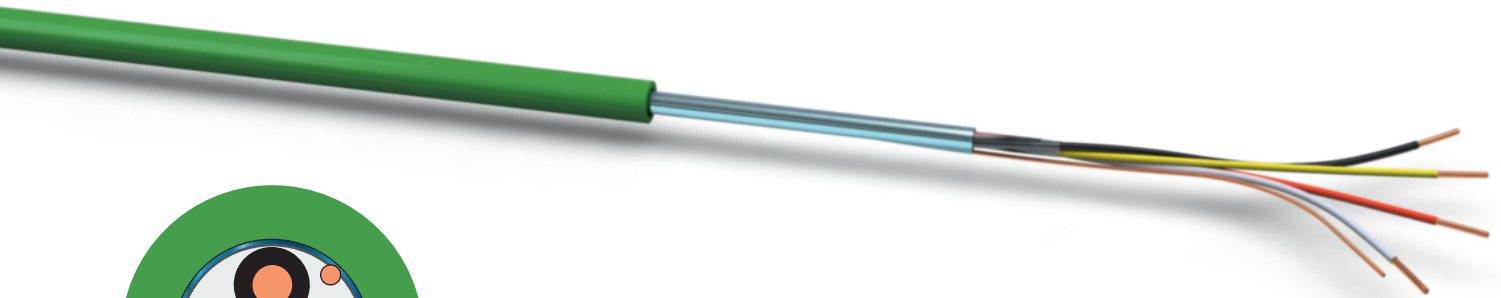
THERMAL & MECHANICAL PROPERTIES

| | |
|--------------------------------|----------------|
| Temperature range stationary | -20°C to +75°C |
| Temperature range during inst. | 0°C to +50°C |
| min. bending radius installed | 5 x diameter |
| min. bending radius moved | 10 x diameter |
| Maximum traction | 100N |

| Dimension | Diameter appr.mm | Cable weight appr.kg/km | Copper index kg/km | Article number |
|-----------|---------------------|----------------------------|-----------------------|----------------|
| AWG22/1 | 6.5 | 42 | 15 | |

Version: 09/2019

We reserve changes which serve technical progress • Price upon quantity-specific request



VOKA EIB Bus 2x2x0,8 Cca

Bus cable according to KNX/EIB-specification
Permanent indoor installation 2x2x0,8

APPLICATION

For use in bus systems (EIB - European Installation Bus) and as ICA cable power installations. Laying in/on plaster, even in moist and wet rooms. Not approved for power and underground installation. Approved for usage acc. to euroclass classification Cca.

STANDARDS

EIB/KNX-guideline

CONSTRUCTION

Conductor: copper, solid, bare, 0,8

Core insulation: PVC

Core diameter: 1,45 ± 0,05 mm

Core identification: wh, ye, rd, bk

Screening: plastic-laminated aluminium foil

Sheath material: Special PVC

Sheath color: green, RAL 6017

BEHAVIOR UNDER FIRE CONDITIONS

EN 60332-1-2 ; EN 50399 ; EN 50575

EN 13501-6 class Cca-s3 d2 a3

CHEMICAL PROPERTIES

RoHS 2011/65/EU

ELECTRICAL CHARACTERISTICS

loop resistance max. max. 73,2 Ω / km

Insulation resistance min. min. 100 MΩ x km
at +20°C

Operating capacity nom. 100 nF / km

Capacitive coupling K1 nom. 200 pF / 100m

Test voltage 1500 V / AC

Operating voltage 300 V

THERMAL & MECHANICAL PROPERTIES

Temperature range stationary -30°C to +70°C

Temperature range during inst. 0°C to +50°C

min. bending radius installed 5 x diameter

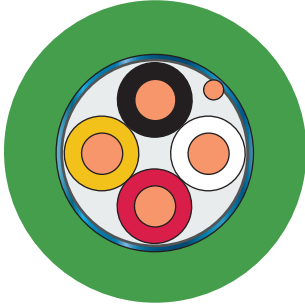
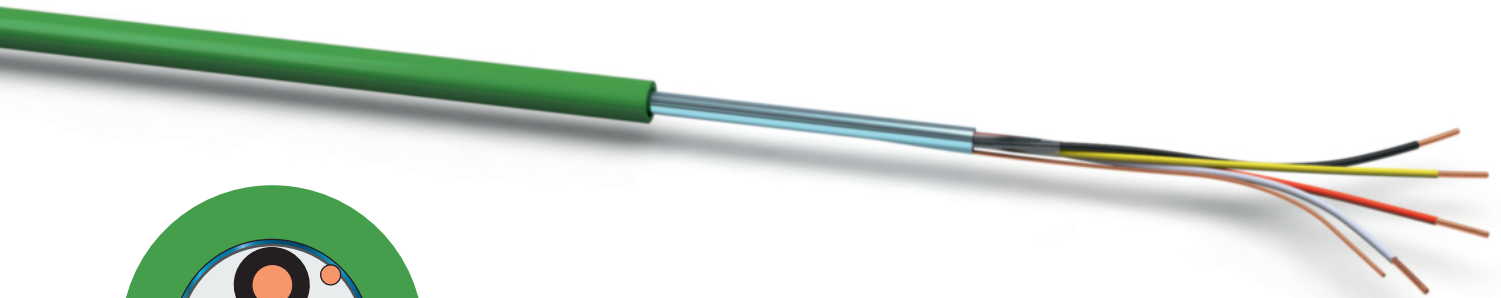
min. bending radius moved 10 x diameter

Maximum traction 100N

| Dimension | Diameter appr. mm | Cable weight appr. kg/km | Copper index kg/km | Article number |
|-----------|-------------------|--------------------------|--------------------|----------------|
| 2x2x0,8 | 6.2 | 64 | 21 | |
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Version: 10/2022

We reserve changes which serve technical progress • Price upon quantity-specific request



VOKA EIB Bus 2x2x0,8 Eca

Bus cable acc. to KNX/EIB-specification
Permanent indoor installation 2x2x0,8

APPLICATION

For use in bus systems (EIB - European Installation Bus) and as ICA cable power installations. Laying in/on plaster, even in moist and wet rooms. Not approved for power and underground installation.

Approved for usage acc. to euroclass classification Eca.

STANDARDS

EIB/KNX-Richtlinie

CONSTRUCTION

Conductor: copper, solid, bare, 0,8

Core insulation: PVC

Core diameter: 1,45 ± 0,05 mm

Core identification: wh, ye, rd, bk

Screening: plastic-laminated aluminium foil

Sheath material: Special PVC

Sheath color: green, RAL 6017

BEHAVIOR UNDER FIRE CONDITIONS

EN 60332-1-2

EN 13501-6 class Eca

CHEMICAL PROPERTIES

RoHS 2011/65/EU

ELECTRICAL CHARACTERISTICS

loop resistance max. max. 73,2 Ω / km

Insulation resistance min. min. 100 MΩ x km
at +20°C

Operating capacity nom. 100 nF / km

Capacitive coupling K1 nom. 200 pF / 100m

Test voltage 1500 V / AC

Operating voltage 300 V

THERMAL & MECHANICAL PROPERTIES

Temperature range stationary -30°C to +70°C

Temperature range during inst. 0°C to +50°C

min. bending radius installed 5 x diameter

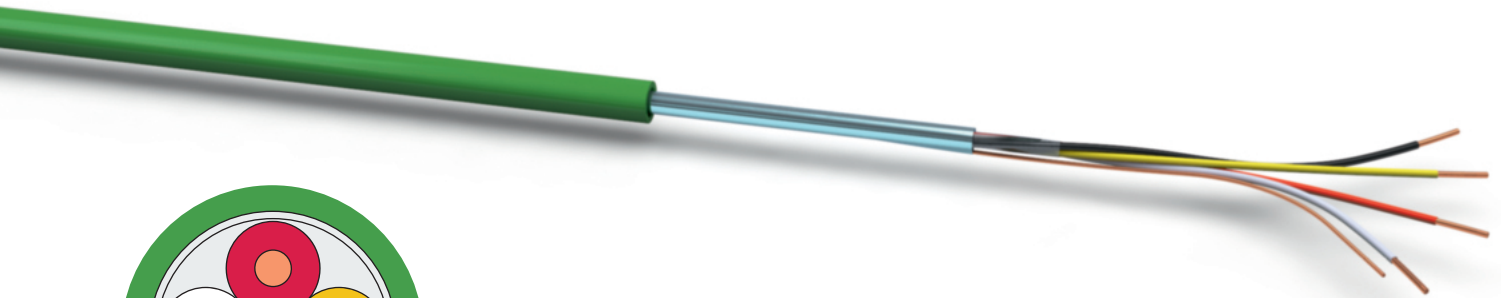
min. bending radius moved 10 x diameter

Maximum traction 100N

| Dimension | Diameter appr. mm | Cable weight appr. kg/km | Copper index kg/km | Article number |
|-----------|-------------------|--------------------------|--------------------|----------------|
| 2x2x0,8 | 6.2 | 64 | 21 | |
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Version: 10/2022

We reserve changes which serve technical progress • Price upon quantity-specific request



VOKA EIB Bus halogen-free B2ca

acc. to KNX/EIB-specification

APPLICATION

For use in bus systems (EIB - European Installation Bus)
Usage: Laying in/on plaster, even in moist and wet rooms.
 Not approved for outside and underground installation.

STANDARDS

EIB/KNX-guideline ; regulation 2014/35/EU

CONSTRUCTION

- Conductor:** copper, solid, bare, 0,8mm
- Core insulation:** halogen-free compound
- Core identification:** acc. to KNX/EIB specification
- Stranding:** 2 cores twinned to pairs
- Wrapping:** plastic foil
- Screening:** plastic-laminated aluminium foil
- Sheath material:** halogen-free compound
- Sheath color:** green, RAL 6017

BEHAVIOR UNDER FIRE CONDITIONS

EN 50575 ; EN 60332-1-2 ; EN 60332-3 ; IEC 60754-2
 EN 61034-2 ; EN 50399 ; EN 13501-6 class B2ca-s1 d1 a1

CHEMICAL PROPERTIES

RoHS 2011/65/EU ; IEC 60811-2-1 (IRM 902, 4h at 70°C)

ELECTRICAL CHARACTERISTICS

| | |
|----------------------------|------------------------|
| loop resistance max. | 73,2 Ω/km |
| Insulation resistance min. | 100 MΩxkm at +20 °C |
| Operating capacity | max. 100 nF/km |
| Capacitive coupling K1 | max. 300 pF/100m |
| Test voltage | 1500 V / AC |
| Operating voltage | 300 V / AC |

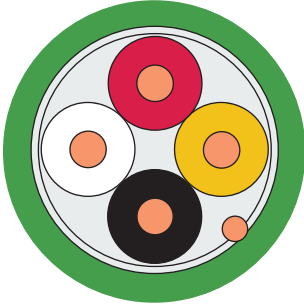
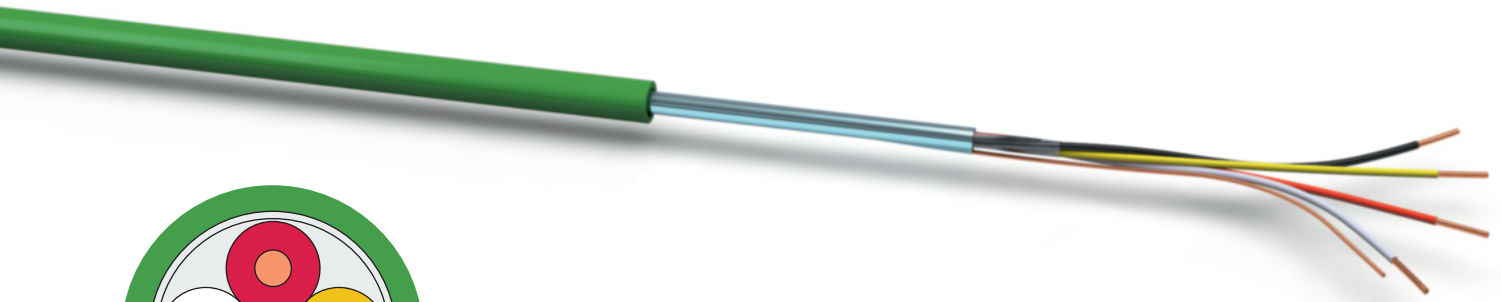
THERMAL & MECHANICAL PROPERTIES

| | |
|--------------------------------|------------------|
| Temperature range stationary | -30 °C to +70 °C |
| Temperature range during inst. | -5 °C to +50 °C |
| min. bending radius installed | 8 x diameter |
| min. bending radius moved | 8 x diameter |

| Dimension | Diameter appr. mm | Cable weight appr. kg/km | Copper index kg/km | Article number |
|-------------|-------------------|--------------------------|--------------------|----------------|
| 1 x 2 x 0,8 | 5,5 | 40 | 11 | 16072600 |
| 2 x 2 x 0,8 | 6,1 | 55 | 21 | 16072700 |
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Version: 03/2025

We reserve changes which serve technical progress • Price upon quantity-specific request



VOKA EIB Bus halogen-free Cca

acc. to KNX/EIB specification

APPLICATION

For use in bus systems (EIB - European Installation Bus)
Usage: Laying in/on plaster, even in moist and wet rooms.
 Not approved for outside and underground installation.

STANDARDS

EIB/KNX-guideline ; guideline 2014/35/EU

CONSTRUCTION

Conductor: copper, solid, bare, 0,8mm
Core insulation: halogen-free compound
Core identification: acc. to KNX/EIB specification
Stranding: 2 cores twinned to pairs or to 4 together
Wrapping: plastic foil
Screening: plastic-laminated aluminium foil, drain wire
Sheath material: halogen-free compound
Sheath color: green, RAL 6017

BEHAVIOR UNDER FIRE CONDITIONS

EN 50575 ; EN 60332-1-2 ; EN 60332-3 ; IEC 60754-2
 EN 61034-2 ; EN 50399 ; EN 13501-6 class Cca-s1 d1 a1

CHEMICAL PROPERTIES

RoHS 2011/65/EU ; IEC 60811-2-1 (IRM 902, 4h by 70°C)

ELECTRICAL CHARACTERISTICS

| | |
|----------------------------|------------------------|
| loop resistance max. | 73,2 Ω/km |
| Insulation resistance min. | 100 MΩxkm at +20 °C |
| Operating capacity | max. 100 nF/km |
| Capacitive coupling K1 | max. 300 pF/100m |
| Test voltage | 1500 V / AC |
| Operating voltage | 300 V / AC |

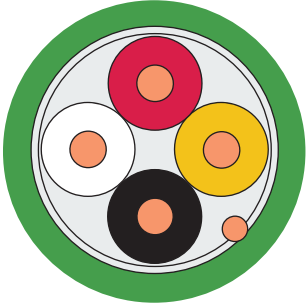
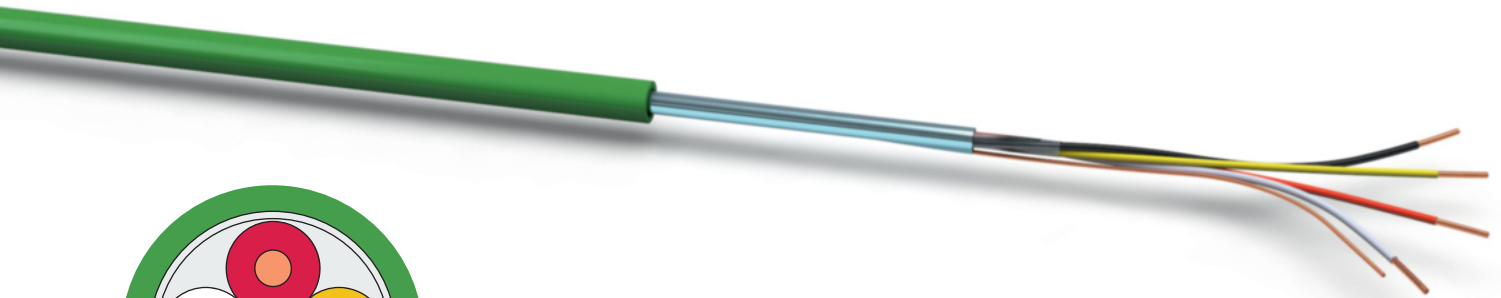
THERMAL & MECHANICAL PROPERTIES

| | |
|--------------------------------|------------------|
| Temperature range stationary | -30 °C to +70 °C |
| Temperature range during inst. | -5 °C to +50 °C |
| min. bending radius installed | 8 x diameter |
| min. bending radius moved | 8 x diameter |

| Dimension | Diameter appr. mm | Cable weight appr. kg/km | Copper index kg/km | Article number |
|-------------|----------------------|-----------------------------|-----------------------|----------------|
| 1 x 2 x 0,8 | 5,5 | 40 | 11 | 16172600 |
| 2 x 2 x 0,8 | 6,1 | 55 | 21 | 16172700 |
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VOKA EIB Bus halogen-free Dca

acc. to KNX/EIB specification

APPLICATION

For use in bus systems (EIB - European Installation Bus)
Usage: Laying in/on plaster, even in moist and wet rooms.
 Not approved for outside and underground installation.

STANDARDS

EIB/KNX-guideline ; guideline 2014/35/EU

CONSTRUCTION

Conductor: copper, solid, bare, 0,8mm
Core insulation: halogen-free compound
Core identification: acc. to KNX/EIB specification
Stranding: 2 cores twinned to pairs or 4 together
Wrapping: plastic foil
Screening: plastic-laminated aluminium foil, drain wire
Sheath material: halogen-free compound
Sheath color: green, RAL 6017

BEHAVIOR UNDER FIRE CONDITIONS

EN 50575 ; EN 60332-1-2 ; EN 60332-3 ; IEC 60754-2
 EN 61034-2 ; EN 50399 ; EN 13501-6 class Dca-s1 d2 a1

CHEMICAL PROPERTIES

RoHS 2011/65/EU ; IEC 60811-2-1 (IRM 902, 4h by 70°C)

ELECTRICAL CHARACTERISTICS

| | |
|----------------------------|------------------------|
| loop resistance max. | 73,2 Ω/km |
| Insulation resistance min. | 100 MΩxkm at +20 °C |
| Operating capacity | max. 100 nF/km |
| Capacitive coupling K1 | max. 300 pF/100m |
| Test voltage | 1500 V / AC |
| Operating voltage | 300 V / AC |

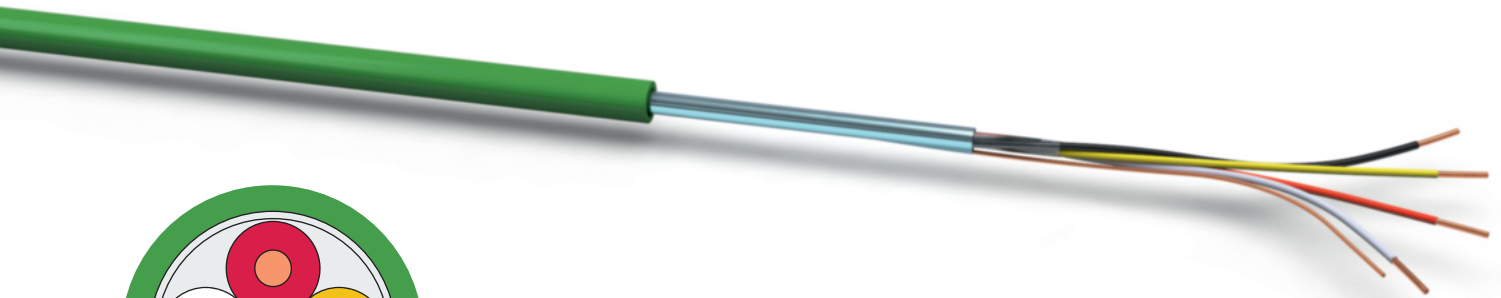
THERMAL & MECHANICAL PROPERTIES

| | |
|--------------------------------|------------------|
| Temperature range stationary | -30 °C to +70 °C |
| Temperature range during inst. | -5 °C to +50 °C |
| min. bending radius installed | 8 x diameter |
| min. bending radius moved | 8 x diameter |

| Dimension | Diameter appr. mm | Cable weight appr. kg/km | Copper index kg/km | Article number |
|-------------|-------------------|--------------------------|--------------------|----------------|
| 1 x 2 x 0,8 | 5,5 | 40 | 11 | 16355100 |
| 2 x 2 x 0,8 | 6,1 | 55 | 21 | 16355200 |
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J-2Y(St)Hh Dca

acc. to KNX/EIB specification

APPLICATION

For use in bus systems (EIB - European Installation Bus)
Usage: Laying in/on plaster, even in moist and wet rooms.
 Not approved for power and underground installation.

STANDARDS

EIB/KNX-guideline; guideline 2014/35/EU

CONSTRUCTION

- Conductor:** copper, solid, bare, 0.8mm
- Core insulation:** Polyethylen
- Core identification:** acc. to KNX/EIB specification
- Stranding:** 2 cores twinned to pairs or 4 together
- Wrapping:** plastic foil
- Screening:** plastic-laminated aluminium foil, drain wire
- Sheath material:** halogen-free compound
- Sheath color:** green, RAL 6017

BEHAVIOR UNDER FIRE CONDITIONS

EN 50575 ; EN 60332-1-2 ; IEC 60754-2 ; EN 61034-2
 EN 50399 ; EN 13501-6 class Dca-s2 d2 a1

CHEMICAL PROPERTIES

RoHS 2011/65/EU ; IEC 60811-2-1 (IRM 902, 4h by 70°C)

ELECTRICAL CHARACTERISTICS

| | |
|----------------------------|------------------------|
| loop resistance max. | 73,2 Ω/km |
| Insulation resistance min. | 100 MΩxkm at +20 °C |
| Operating capacity | max. 100 nF/km |
| Capacitive coupling K1 | max. 300 pF/100m |
| Test voltage | 1500 V / AC |
| Operating voltage | 300 V / AC |

THERMAL & MECHANICAL PROPERTIES

| | |
|--------------------------------|------------------|
| Temperature range stationary | -30 °C to +70 °C |
| Temperature range during inst. | -5 °C to +50 °C |
| min. bending radius installed | 8 x diameter |
| min. bending radius moved | 8 x diameter |

| Dimension | Diameter appr. mm | Cable weight appr. kg/km | Copper index kg/km | Article number |
|-------------|-------------------|--------------------------|--------------------|----------------|
| 1 x 2 x 0,8 | 5,5 | 36 | 11 | 16356500 |
| 2 x 2 x 0,8 | 6,0 | 50 | 21 | 16356600 |
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VOKA
VOGTLÄNDISCHES
KABELWERK GMBH



CABLES MADE IN GERMANY