

Han® 3 A RJ45 Hybrid system cable, 4-wire, straight, Cat. 5

RJ45 cords

Features

- Connector types Han® 3 A RJ45 Hybrid (V5) plastic/metal
- Category Cat. 5
- Number of wires 4 (data) + 4 (power)
- Wiring 1:1
- Sheath material FRNC, halogen free

Application

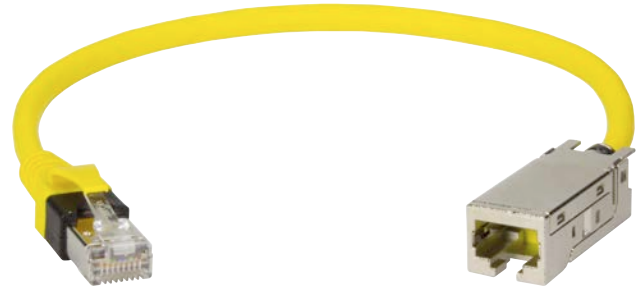
- Industrial Cabling
- Within switch cabinets
- On machines and control units

Benefits

- Robust design
- Use on-site made possible via IP65 / IP67 protection
- Easy handling for applications with additional power supply
- PROFINET compliant

Technical characteristics

- Connector types Han® 3 A RJ45 Hybrid, plastic/metal
- Cable type 4 x AWG 22/7, star quad, shielded + 4 x 1.5 mm² power cores
- Sheath material FRNC, halogen free
- Wiring 4 pole, contacts 1/2 and 3/6
- Transmission performance Category 5 class D up to 100 MHz acc. to ISO/IEC 11801, EN 50173-1
- Data rate 10 Mbit/s, 100 Mbit/s
- Shielding Fully shielded, 360° shielding contact
- Operating temperature range -20 °C ... +70 °C
- Colour Green
- Data power supply:
 - Rated voltage 48 V/DC
 - Rated current 16 A



HARTING RJ Industrial® patch cable, overmoulded, 8-wire, Cat. 6A

Features

- Connector types RJ45
- Category Cat. 6A
- Number of wires 8
- Wiring 1:1
- Sheath material FRNC, halogen free

Application

- Industrial Cabling
- Within switch cabinets
- On machines
- In IT networks

Benefits

- Robust industrial design
- Flexible, space saving
- Locking lever protection
- Halogen free and RoHS compliant
- Compliant acc. ISO/IEC 11801

Technical characteristics

- Connector types RJ45, overmoulded, with locking lever protection
- Cable types 4 x 2, Twisted Pair, shielded, S/FTP
Category 7 acc. to IEC 61 156-6, EN 50288-4-2
- Sheath material FRNC, halogen free
- Wiring 8 pole, 1:1 or crossed
- Transmission performance Category 6A, Class EA up to 500 MHz acc. to ISO/IEC 11801, EN 50173-1
- Data rate 10 Mbit/s, 100 Mbit/s, 1 Gbit/s, 2,5 Gbit/s, 5 Gbit/s, 10 Gbit/s
- Shielding Fully shielded, 360° shielding contact
- Operating temperature range 0 °C ... +60 °C
- Colour Yellow

Identification

HARTING RJ Industrial® patch cable, 8-wire

| Length | Part number |
|--------|----------------|
| 0.15 m | 09 45 545 1500 |
| 0.2 m | 09 45 545 1501 |
| 0.25 m | 09 45 545 1519 |
| 0.3 m | 09 45 545 1502 |
| 0.4 m | 09 45 545 1503 |
| 0.5 m | 09 45 545 1504 |
| 0.6 m | 09 45 545 1505 |
| 0.7 m | 09 45 545 1506 |
| 0.8 m | 09 45 545 1507 |
| 0.9 m | 09 45 545 1508 |
| 1.0 m | 09 45 545 1509 |
| 1.5 m | 09 45 545 1510 |
| 2.0 m | 09 45 545 1511 |
| 2.5 m | 09 45 545 1512 |
| 3.0 m | 09 45 545 1513 |
| 3.5 m | 09 45 545 1514 |
| 4.0 m | 09 45 545 1515 |
| 5.0 m | 09 45 545 1516 |
| 7.5 m | 09 45 545 1517 |
| 10.0 m | 09 45 545 1518 |

Part number

| |
|----------------|
| 09 45 545 1500 |
| 09 45 545 1501 |
| 09 45 545 1519 |
| 09 45 545 1502 |
| 09 45 545 1503 |
| 09 45 545 1504 |
| 09 45 545 1505 |
| 09 45 545 1506 |
| 09 45 545 1507 |
| 09 45 545 1508 |
| 09 45 545 1509 |
| 09 45 545 1510 |
| 09 45 545 1511 |
| 09 45 545 1512 |
| 09 45 545 1513 |
| 09 45 545 1514 |
| 09 45 545 1515 |
| 09 45 545 1516 |
| 09 45 545 1517 |
| 09 45 545 1518 |



Patch cable RJ45 DualBoot®,
Cat. 5/Cat. 5e, shielded

Features

- Connector types RJ45
- Category Cat. 5/Cat. 5e
- Number of wires 8
- Wiring 1:1
- Sheath material FRNC, halogen free

Application

- Industrial Cabling
- Within switch cabinets
- In IT networks

Benefits

- Flexible, space saving
- Different colours, characterization of services
- Halogen free and RoHS compliant
- Compliant acc. ISO/IEC 11801

Technical characteristics

- Connector types RJ45 with DualBoot®
- Cable type 4x2 Twisted Pair, screened SF-UTP
- Sheath material FRNC, halogen free
- Wiring 8 pole, 1:1
- Transmission performance Category 5/Category 5e, Class D up to 100 MHz according ISO/IEC 11801 and EN 50 173-1
- Data rate 10 Mbit/s, 100 Mbit/s, 1 Gbit/s, 2,5 Gbit/s
- Shielding Fully shielded, 360° shielding contact
- Operating temperature range 0 °C ... +60 °C
- Lengths All lengths available in 10 cm steps
- Lengths key xxx = length in dm (standard length: 5, 10, 15, 20, 25, 30, 50, 75 und 100 dm), e.g. 005 for 5 dm length
- Colour Grey, red, yellow, green, blue

Identification

Patch cable Cat. 5/Cat. 5e DualBoot® 1:1
 grey
 red
 yellow
 green
 blue

Part number

09 48 868 6569 xxx
 09 48 868 6570 xxx
 09 48 868 6571 xxx
 09 48 868 6572 xxx
 09 48 868 6573 xxx



Patch cable RJ45 DualBoot®,
Cat. 6_A, shielded

Features

- Connector types RJ45
- Category Cat. 6_A
- Number of wires 8
- Wiring 1:1
- Sheath material FRNC, halogen free

Application

- Industrial Cabling
- Within switch cabinets
- In IT networks

Benefits

- Transmission of up to 10 Gbit/s
- Flexible, space saving
- Different colours, characterization of services
- Halogen free and RoHS compliant
- Compliant acc. ISO/IEC 11801

Technical characteristics

- Connector types RJ45 with DualBoot®
- Cable type 4x2 Twisted Pair, screened SF-STP
- Sheath material FRNC, halogen free
- Wiring 8 pole, 1:1
- Transmission performance Category 6_A, Class E_A up to 500 MHz according ISO/IEC 11801 and EN 50 173-1
- Data rate 10 Mbit/s, 100 Mbit/s, 1 Gbit/s, 2,5 Gbit/s, 5 Gbit/s, 10 Gbit/s
- Shielding Fully shielded, 360° shielding contact
- Operating temperature range 0 °C ... +60 °C
- Lengths All lengths available in 10 cm steps
- Lengths key xxx = length in dm (standard length: 5, 10, 15, 20, 25, 30, 50, 75 und 100 dm), e.g. 005 for 5 dm length
- Colour White, grey, red, yellow, green, blue, black

Identification

Patch cable Cat. 6_A DualBoot® 1:1

- white
- grey
- red
- yellow
- green
- blue
- black

Part number

- 09 48 878 7584 xxx
- 09 48 878 7585 xxx
- 09 48 878 7586 xxx
- 09 48 878 7587 xxx
- 09 48 878 7588 xxx
- 09 48 878 7589 xxx
- 09 48 878 7590 xxx



PushPull patch cable RJ45 DualBoot®,
Cat. 5/Cat. 5e, shielded

Features

| | |
|-------------------|---------------------------|
| • Connector types | RJ45 with PushPull locker |
| • Category | Cat. 5/Cat. 5e |
| • Number of wires | 8 |
| • Wiring | 1:1 |
| • Sheath material | FRNC, halogen free |

Application

- Industrial Cabling
- Within switch cabinets
- In IT networks

Benefits

- PushPull locking mechanism
- Different colours, characterization of services
- Halogen free and RoHS compliant
- Compliant acc. ISO/IEC 11801

Technical characteristics

| | |
|-----------------------------|--|
| Connector types | RJ45 with DualBoot® and PushPull locker |
| Cable type | 4x2 Twisted Pair, screened SF-STP |
| Sheath material | FRNC, halogen free |
| Wiring | 8 pole, 1:1 |
| Transmission performance | Category 5, Class D up to 100 MHz according ISO/IEC 11801 and EN 50 173-1 |
| Data rate | 10 Mbit/s, 100 Mbit/s, 1 Gbit/s, 2,5 Gbit/s |
| Shielding | Fully shielded, 360° shielding contact |
| Operating temperature range | 0 °C ... +60 °C |
| Lengths | All lengths available in 10 cm steps |
| Lengths key | xxx = length in dm (standard length: 5, 10, 15, 20, 25, 30, 50, 75 und 100 dm), e.g. 005 for 5 dm length |
| Colour | Grey, red, yellow, green, blue, orange |

Identification

PushPull patch cable Cat. 5/Cat. 5e DualBoot® 1:1
 grey
 red
 yellow
 green
 blue
 orange

Part number

09 48 898 9595 xxx
 09 48 898 9596 xxx
 09 48 898 9597 xxx
 09 48 898 9594 xxx
 09 48 898 9598 xxx
 09 48 898 9593 xxx



**PushPull patch cable RJ45 DualBoot®
Cat. 6_A, shielded**

Features

- Connector types RJ45 with PushPull locker
- Category Cat. 6_A
- Number of wires 8
- Wiring 1:1
- Sheath material FRNC, halogen free

Application

- Industrial Cabling
- Within switch cabinets
- In IT networks

Benefits

- Transmission of up to 10 Gbit/s
- PushPull locking mechanism
- Different colours, characterization of services
- Halogen free and RoHS compliant
- Compliant acc. ISO/IEC 11801

Technical characteristics

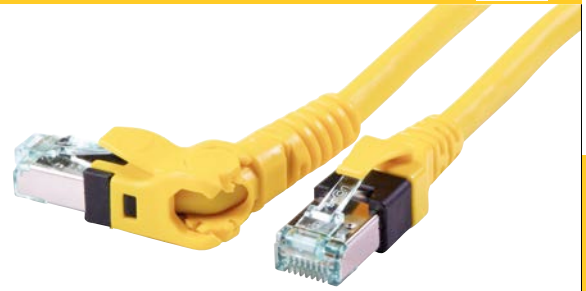
- Connector types RJ45 with DualBoot® and PushPull locker
- Cable type 4x2 Twisted Pair, screened SF-STP
- Sheath material FRNC, halogen free
- Wiring 8 pole, 1:1
- Transmission performance Category 6_A, Class E_A up to 500 MHz according ISO/IEC 11801 and EN 50 173-1
- Data rate 10 Mbit/s, 100 Mbit/s, 1 Gbit/s, 2,5 Gbit/s, 5 Gbit/s, 10 Gbit/s
- Shielding Fully shielded, 360° shielding contact
- Operating temperature range 0 °C ... +60 °C
- Lengths All lengths available in 10 cm steps
- Lengths key xxx = length in dm (standard length: 5, 10, 15, 20, 25, 30, 50, 75 und 100 dm), e.g. 005 for 5 dm length
- Colour White, black, grey, red, yellow, green, blue, orange

Identification

PushPull patch cable Cat. 6_A DualBoot® 1:1
 white
 black
 grey
 red
 yellow
 green
 blue
 orange

Part number

09 48 888 8574 xxx
 09 48 888 8575 xxx
 09 48 888 8576 xxx
 09 48 888 8577 xxx
 09 48 888 8578 xxx
 09 48 888 8579 xxx
 09 48 888 8580 xxx
 09 48 888 8592 xxx



HARTING VarioBoot® RJ45 System Cable – small, manoeuvrable and space-saving

Features

- Up to Cat. 6_A 10 Gbit/s transmission
- Over-moulded angled RJ45 connector with locking – lever protection
- Adaptable and changeable cable outlet
- Small design helps save significant space
- One RJ45 system cable for all outlet directions



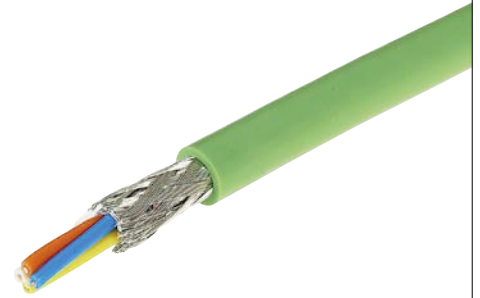
Technical characteristics

| | |
|-----------------------------|--|
| Connector types | RJ45 with DualBoot® |
| Cable type | 4x2 Twisted Pair, screened SF-STP |
| Sheath material | FRNC, halogen free |
| Wiring | 8 pole, 1:1 |
| Transmission performance | Category 6 _A , Class E _A up to 500 MHz according ISO/IEC 11801 and EN 50 173-1 |
| Data rate | 10 Mbit/s, 100 Mbit/s, 1 Gbit/s, 2,5 Gbit/s, 5 Gbit/s, 10 Gbit/s |
| Shielding | Fully shielded, 360° shielding contact |
| Operating temperature range | 0 °C ... +60 °C |
| Lengths | All lengths available in 10 cm steps |
| Lengths key | xxx = length in dm (standard length: 5, 10, 15, 20, 25, 30, 50, 75 und 100 dm), e.g. 005 for 5 dm length |
| Colour | White, grey, red, yellow, green, blue, black |

Identification

Part number

| Identification | | Part number | | |
|-------------------|--|-----------------------------------|----------------------------------|---|
| Colour | | VarioBoot® RJ45 – VarioBoot® RJ45 | VarioBoot® RJ45 – DualBoot® RJ45 | VarioBoot® RJ45 Orientation pre-mounted |
| FRNC Cable | | | | |
| Grey | | 09 48 858 5585 xxx | 09 48 858 7585 xxx | left and right |
| Red | | 09 48 858 5586 xxx | 09 48 858 7586 xxx | left and right |
| Yellow | | 09 48 858 5587 xxx | 09 48 858 7587 xxx | left and right |
| Green | | 09 48 858 5588 xxx | 09 48 858 7588 xxx | left and right |
| Blue | | 09 48 858 5589 xxx | 09 48 858 7589 xxx | left and right |
| xxx: Cable length | 005 = 0.5 m 010 = 1.0 m 015 = 1.5 m 020 = 2.0 m 025 = 2.5 m 030 = 3.0 m 050 = 5.0 m 075 = 7.5 m 100 = 10 m 150 = 15 m 200 = 20 m | | | |



Industrial Cat. 5 standard cable, 4-wire
Type A

Features

- Sheath material PVC
- Category Cat. 5
- Number of wires 4
- Wire design AWG 22/1
- Wire diameter 6.5 mm

Application


- For permanent installation or to build-up PROFINET system cable

Benefits

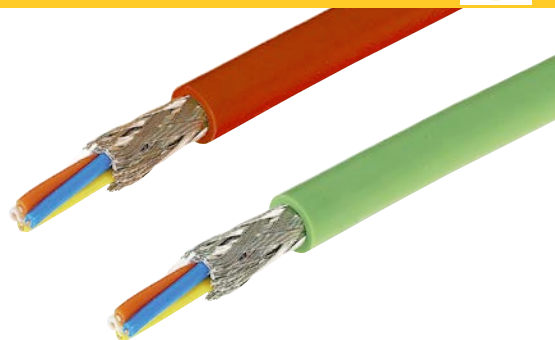
- Robust design suitable for industry
- PROFINET compliant
- Easy stripping of cable sheath and screening braid with stripping tool 09 45 800 0000
- RoHS compliant

Technical characteristics

| | |
|-----------------------------|---|
| Cable structure | Star quad, double shielding |
| Core structure | 4 x AWG 22/1, solid |
| Wire insulation | PE, Ø 1.5 mm |
| Sheath material | PVC |
| Cable sheath diameter | 6.5 mm |
| Transmission performance | Category 5, Class D up to 100 MHz acc. to ISO/IEC 11801, EN 50173-1 |
| Data rate | 10 Mbit/s, 100 Mbit/s |
| Shielding | Shielding foil and shielding braid |
| Operating temperature range | -40 °C ... +75 °C |
| Colour | Green |
| Printing | HARTING specific printing |

| Identification | Part number PVC | Drawing | Dimensions in mm |
|--|--------------------|---|------------------|
| Industrial Cat. 5 standard cable Type A, 4-wire | Green |  | |
| 20 m ring | 09 45 600 0130 | | |
| 50 m ring | 09 45 600 0140 | | |
| 100 m ring | 09 45 600 0100 | | |
| 500 m drum | 09 45 600 0110 | | |

Other cable lengths on request



Industrial Cat. 5 stranded cable, 4-wire
Type B

Features

- Sheath material PVC
- Category Cat. 5
- Number of wires 4
- Wire design AWG 22/7
- Wire diameter 6.5 mm

Application

- To build-up PROFINET/SERCOS III system cable

Benefits

- Robust design suitable for industry
- PROFINET compliant (Green)
- SERCOS III compliant (Red)
- Easy stripping of cable sheath and screening braid with stripping tool 09 45 800 0000
- RoHS compliant

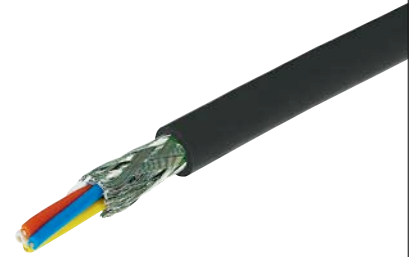
Technical characteristics

- Cable structure Star quad, double shielding
- Core structure 4 x AWG 22/7, tinned copper wire, stranded
- Wire insulation PE, Ø 1.56 mm
- Sheath material PVC
- Cable sheath diameter 6.5 mm
- Transmission performance Category 5, Class D up to 100 MHz acc. to ISO/IEC 11801, EN 50 173-1
- Data rate 10 Mbit/s, 100 Mbit/s
- Shielding Shielding foil and shielding braid
- Operating temperature range -40 °C ... +70 °C
- Colour Green (PROFINET)
Red (SERCOS III)
- Printing HARTING specific printing

Cables
4-wire

| Identification | Part number | | Drawing | Dimensions in mm |
|---|----------------|----------------|---------|------------------|
| | PVC | SERCOS III PVC | | |
| Industrial Cat. 5 stranded cable Type B, 4-wire | Green | Red | | |
| 20 m ring | 09 45 600 0132 | 09 45 600 0134 | | |
| 50 m ring | 09 45 600 0142 | 09 45 600 0144 | | |
| 100 m ring | 09 45 600 0102 | 09 45 600 0104 | | |
| 500 m drum | 09 45 600 0112 | 09 45 600 0114 | | |

Other cable lengths on request



Industrial Cat. 5 stranded cable, 4-wire,
Type B, outdoor

Features

- Sheath material PVC
- Category Cat. 5
- Number of wires 4
- Wire design AWG 22/7
- Wire diameter 6.5 mm

Application


- To build-up PROFINET system cable

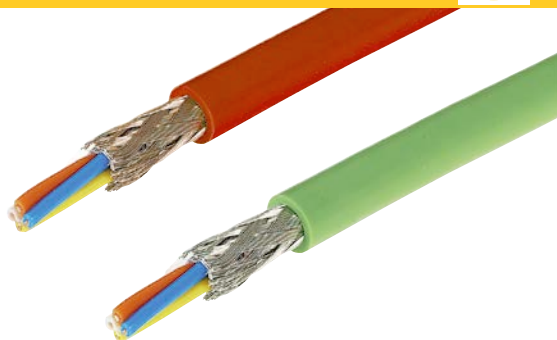
Benefits

- Robust design suitable for industry
- PROFINET compliant
- UV protected
- Easy stripping of cable sheath and screening braid with stripping tool 09 45 800 0000
- RoHS compliant

Technical characteristics

| | |
|-----------------------------|---|
| Cable structure | Star quad, double shielding |
| Core structure | 4 x AWG 22/7, stranded |
| Wire insulation | PE, Ø 1.56 mm |
| Sheath material | PVC |
| Cable sheath diameter | 6.5 mm |
| Transmission performance | Category 5, Class D up to 100 MHz acc. to ISO/IEC 11801, EN 50173-1 |
| Data rate | 10 Mbit/s, 100 Mbit/s |
| Shielding | Shielding foil and shielding braid |
| Operating temperature range | -45 °C ... +60 °C |
| Colour | Black |
| Printing | HARTING specific printing |

| Identification | Part number PVC | Drawing | Dimensions in mm |
|--|--------------------|---|------------------|
| Industrial Cat. 5 stranded cable, 4-wire, Type B, outdoor | Black |  | |
| 20 m ring | 09 45 600 0135 | | |
| 50 m ring | 09 45 600 0145 | | |
| 100 m ring | 09 45 600 0105 | | |
| 500 m drum | 09 45 600 0115 | | |



Industrial Cat. 5 stranded cable, 4-wire,
useable as trailing cables,
Type C

Features

- Sheath material PUR
- Category Cat. 5
- Number of wires 4
- Wire design AWG 22/7
- Wire diameter 6.5 mm

Application

- To connect to mobile equipment to build-up PROFINET/SERCOS III system cable

Benefits

- Robust design suitable for industry
- PROFINET compliant (Green)
- SERCOS III compliant (Red)
- Useable as trailing cables
- Easy stripping of cable sheath and screening braid with stripping tool 09 45 800 0000
- RoHS compliant

Technical characteristics

- Cable structure Star quad, double shielding
- Core structure 4 x AWG 22/7, stranded
- Wire insulation PE, Ø 1.5 mm
- Sheath material PUR
- Cable sheath diameter 6.5 mm
- Transmission performance Category 5, Class D up to 100 MHz acc. to ISO/IEC 11801, EN 50 173-1
- Data rate 10 Mbit/s, 100 Mbit/s
- Shielding Shielding foil and shielding braid
- Operating temperature range -40 °C ... +70 °C
- Colour Green (PROFINET)
Red (SERCOS III)
- Printing HARTING specific printing

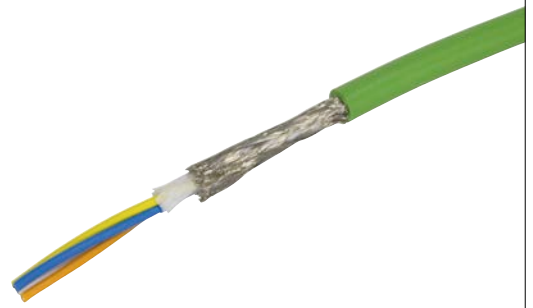
Cables
4-wire

| Identification | Part number | | Drawing | Dimensions in mm |
|--|----------------|----------------|---------|------------------|
| | PUR | SERCOS III PUR | | |
| Industrial Cat. 5 stranded cable, 4-wire, useable as trailing cables, Type C | Green | Red | | |
| 20 m ring | 09 45 600 0131 | 09 45 600 0137 | | |
| 50 m ring | 09 45 600 0141 | 09 45 600 0147 | | |
| 100 m ring | 09 45 600 0101 | 09 45 600 0107 | | |
| 500 m drum | 09 45 600 0111 | 09 45 600 0117 | | |

Other cable lengths on request



Industrial Cat. 5 stranded cable, 4-wire,
useable as torsion cables,
Type C



Features

- Sheath material PUR
- Category Cat. 5
- Number of wires 4
- Wire design AWG 22/19
- Wire diameter 6.5 mm

Application

- To connect to mobile equipment to build-up PROFINET system cable

Benefits

- Robust design suitable for industry
- PROFINET compliant (Green)
- Useable as torsion cables
- Easy stripping of cable sheath and screening braid with stripping tool 09 45 800 0000
- RoHS compliant

Technical characteristics

- Cable structure Star quad, double shielding
- Core structure 4 x AWG 22/19, stranded
- Wire insulation PE, Ø 1.52 mm
- Sheath material PUR
- Cable sheath diameter 6.5 mm
- Transmission performance Category 5, Class D up to 100 MHz acc. to ISO/IEC 11801, EN 50173-1
- Data rate 10 Mbit/s, 100 Mbit/s
- Shielding Shielding foil and shielding braid
- Operating temperature range -40 °C ... +80 °C
- Colour Green (PROFINET)
- Printing HARTING specific printing

| Identification | Part number | Drawing | Dimensions in mm |
|----------------|-------------|---------|------------------|
|----------------|-------------|---------|------------------|

Industrial Cat. 5
stranded cable, 4-wire,
useable as torsion cables,
Type C

- 20 m ring
- 50 m ring
- 100 m ring
- 500 m drum

- 09 45 600 1110
- 09 45 600 1120
- 09 45 600 1130
- 09 45 600 1140





PROFINET 4 TP type A cable, 8-wire, PVC

Features

- Sheath material PVC
- Category Cat. 6_A
- Number of wires 8
- Wire design AWG 23/1
- Wire diameter 7.9 mm

Application

This data cable can be used for the cabling acc. to type A of the PROFINET cabling standard. The four pair TP construction allows the transmission of IT data and analog signals such as 10 Mbit/s, 100 Mbit/s, 10 Gbit/s, video and audio as well as IP data services.

Benefits

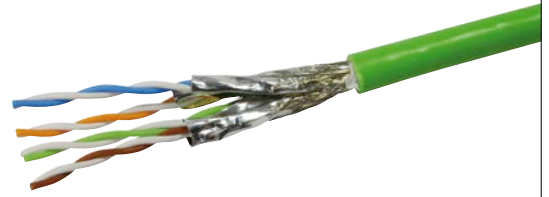
- PROFINET compliant (green)
- For fixed installation
- Flame retardant
- RoHS compliant
- Usable for the Fast Ethernet and Gigabit Ethernet data cabling in industrial applications

Technical characteristics

- Cable structure 4 x 2, Twisted Pair, shielded
- Core structure 4 pairs AWG 23/1
- Wire insulation PE, Ø 1.4 mm
- Sheath material PVC
- Cable sheath diameter 7.9 mm
- Transmission performance Category 6_A, Class E_A up to 500 MHz acc. to EN 50288, IEC 61156
- Data rate 110 Mbit/s, 100 Mbit/s, 1 Gbit/s, 2,5 Gbit/s, 5 Gbit/s, 10 Gbit/s
- Shielding Foil and tinned copper braid
- Operating temperature range
fix operation -20 °C ... +60 °C
flexible operation 0 °C ... +50 °C
- Colour Green

| Identification | Part number | Drawing | Dimensions in mm |
|---|--|---------|------------------|
| <p>PROFINET 4 TP type A cable, 8-wire, Cat. 6_A, PVC</p> <p>20 m ring 50 m ring 100 m ring 500 m drum</p> | <p>09 45 600 1200 09 45 600 1210 09 45 600 1220 09 45 600 1230</p> | | |

Other cable lengths on request



PROFINET 4 TP type B cable, 8-wire, PVC

Features

- Sheath material PVC
- Category Cat. 6_A
- Number of wires 8
- Wire design AWG 23/7
- Wire diameter 8.7 mm

Application

This data cable can be used for the cabling acc. to type B of the PROFINET cabling standard. The four pair TP construction allows the transmission of IT data and analog signals such as 10 Mbit/s, 100 Mbit/s, 10 Gbit/s, video and audio as well as IP data services.

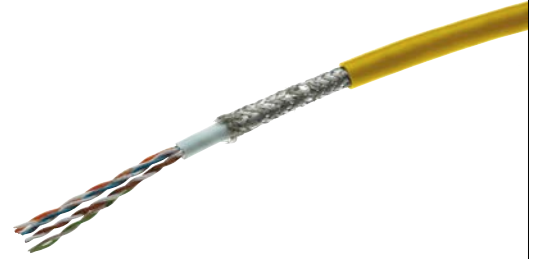
Benefits

- PROFINET compliant (green)
- Suitable for flexible system cables
- Flame retardant
- RoHS compliant
- Usable for the Fast Ethernet and Gigabit Ethernet data cabling in industrial applications
- UL certified
- UV proof

Technical characteristics

| | |
|-----------------------------|--|
| Cable structure | 4 x 2, Twisted Pair, shielded |
| Core structure | 4 pairs AWG 23/7 |
| Wire insulation | PE, Ø 1.59 mm |
| Sheath material | PVC |
| Cable sheath diameter | 8.7 mm |
| Transmission performance | Category 6 _A , Class E _A up to 500 MHz acc. to EN 50288, IEC 61156 |
| Data rate | 10 Mbit/s, 100 Mbit/s, 1 Gbit/s, 2,5 Gbit/s, 5 Gbit/s, 10 Gbit/s |
| Shielding | Tinned copper braid |
| Operating temperature range | -40 °C ... +80 °C |
| Colour | Green |

| Identification | Part number | Drawing | Dimensions in mm |
|--|--|---------|------------------|
| PROFINET 4 TP type B cable, 8-wire, Cat. 6 _A , PVC 20 m ring 50 m ring 100 m ring 500 m drum | 09 45 600 1211 09 45 600 1221 09 45 600 1231 09 45 600 1241 | | |



Industrial Cat. 5/Cat. 5e high flexible cable, 8-wire, PUR

Features

- Sheath material PUR
- Category Cat. 5/Cat. 5e
- Number of wires 8
- Wire design AWG 26/19
- Wire diameter 6.8 mm

Application

- Trailing
- Fit for torsion strength

Benefits

- Robust design suitable for industry
- Usable as trailing cables in drag chains and fit for torsion strength
- Usable for transfer rate up to 1 Gigabit Ethernet
- Halogen free
- Flame retardant
- Free silicone oil
- RoHS compliant
- UL certified

Technical characteristics

- Cable structure 4 x 2, Twisted Pair, shielded
- Core structure 4 x 2 x AWG 26/19
- Wire insulation PE, Ø 1.0 mm
- Sheath material PUR
- Cable sheath diameter 6.6 mm
- Transmission performance Category 5/Category 5e, Class D up to 100 MHz acc. to EN 50288-2-2:2004, IEC 61156-6:2002
- Data rate 10 Mbit/s, 100 Mbit/s, 1 Gbit/s, 2,5 Gbit/s
- Shielding Overall screen of tinned copper braid
- Operating temperature range
 - fix operation -40 °C ... +80 °C
 - flexible operation -30 °C ... +70 °C
 - flexible operation with forced Guidance -20 °C ... +60 °C
- Bending cycles 5 million
- Colour Yellow
- Fit for torsion strength 1 Mio. Zyklen

Identification

Part number

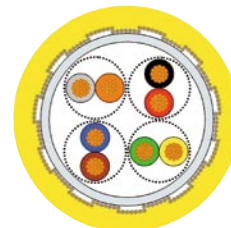
Drawing

Dimensions in mm

Industrial Cat. 5/Cat. 5e
installation cable, 8-wire
PUR

- 20 m ring
- 50 m ring
- 100 m ring
- 500 m drum

- 09 45 600 0236
- 09 45 600 0246
- 09 45 600 0206
- 09 45 600 0256





Industrial Cat. 5/Cat. 5e stranded cable, 8-wire, PVC, Outdoor

Features

- Sheath material PVC
- Category Cat. 5/Cat. 5e
- Number of wires 8
- Wire design AWG 26/7
- Wire diameter (6.5 ... 6.9) mm

Application

- To build-up flexible connections (one- or two-sided assembled system cable)

Benefits

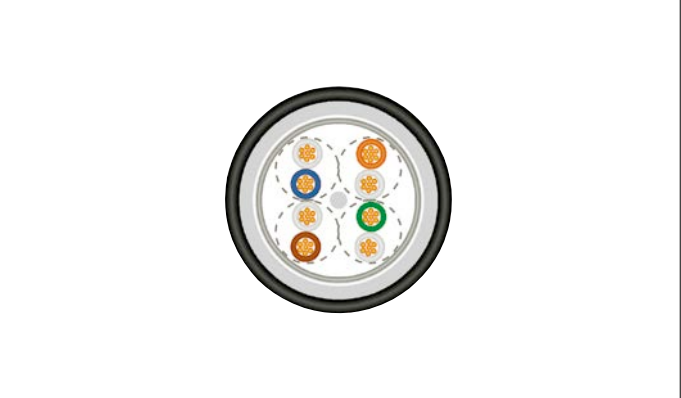
- Robust design suitable for industry
- Applicable also for outside applications
- UL, AWM style 2969
- Flame retardant
- Weather proof
- UV resistant
- RoHS compliant
- With Fast Connect inside sheath

Technical characteristics

| | |
|-----------------------------|---|
| Cable structure | 4 x 2, Twisted Pair, shielded |
| Core structure | 4 x 2 x AWG 26/7 |
| Wire insulation | PE, Ø 1.0 mm |
| Sheath material | PVC |
| Cable sheath diameter | 6.5 mm ... 6.9 mm |
| Transmission performance | Category 5/Category 5e, Class D up to 100 MHz acc. to ISO/IEC 11801, EN 50173-1 |
| Data rate | 10 Mbit/s, 100 Mbit/s, 1 Gbit/s, 2,5 Gbit/s |
| Shielding | Foil screen and additional plated cable |
| Operating temperature range | fix operation -40 °C ... +80 °C flexible operation -10 °C ... +60 °C |
| Colour | Black |

| Identification | Part number | Drawing | Dimensions in mm |
|----------------|-------------|---------|------------------|
|----------------|-------------|---------|------------------|

| | | | |
|---|----------------|--|--|
| Industrial Cat. 5/Cat. 5e stranded cable, 8-wire, outdoor PVC | | | |
| 20 m ring | 09 45 600 0230 | | |
| 50 m ring | 09 45 600 0240 | | |
| 100 m ring | 09 45 600 0200 | | |
| 500 m drum | 09 45 600 0220 | | |





Industrial Cat. 6_A cable, stranded, 8-wire, PVC


Features

- Sheath material PVC
- Category Cat. 6_A
- Number of wires 8
- Wire design AWG 26/7
- Wire diameter (6.3 ... 6.9) mm

Application

- To build-up flexible connections (one- or two-sided assembled system cable)

Benefits

- Robust design suitable for industry
- Optimal performance reserves
-  UL, AWM style 20 276
- Flame retardant
- RoHS compliant
- Best useable for all 8-wire HARTING RJ45 connectors

Technical characteristics

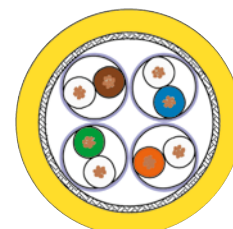
| | |
|-----------------------------|--|
| Cable structure | 4 x 2, Twisted Pair, shielded, PIMF |
| Core structure | 4 x 2 x AWG 26/7 |
| Wire insulation | PE, Ø 1.05 mm |
| Sheath material | PVC |
| Cable sheath diameter | 6.3 mm ... 6.9 mm |
| Transmission performance | Category 6 _A , Class E _A up to 500 MHz acc. to ISO/IEC 11 801, EN 50 173-1 |
| Data rate | 10 Mbit/s, 100 Mbit/s, 1 Gbit/s, 2,5 Gbit/s, 5 Gbit/s, 10 Gbit/s |
| Shielding | Paired shielded with additional cable shield |
| Operating temperature range | -20 °C ... +80 °C |
| Colour | Yellow |

| Identification | Part number | Drawing | Dimensions in mm |
|----------------|-------------|---------|------------------|
|----------------|-------------|---------|------------------|

Industrial Cat. 6_A cable, stranded, 8-wire
PVC

- 20 m ring
- 50 m ring
- 100 m ring
- 500 m drum

- 09 45 600 0532
- 09 45 600 0542
- 09 45 600 0502
- 09 45 600 0522





Industrial Cat. 6_A cable, stranded, 8-wire, PUR

Features

- Sheath material PUR
- Category Cat. 6_A
- Number of wires 8
- Wire design AWG 26/7
- Wire diameter (6.3 ... 6.9) mm

Application

- To build-up flexible connections (one- or two-sided assembled system cable)

Benefits

- Robust design suitable for industry
- Optimal performance reserves
- Halogen free
- RoHS compliant
- Flame retardant

Technical characteristics

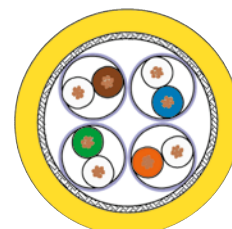
- Cable structure 4 x 2, Twisted Pair, shielded, PIMF
- Core structure 4 x 2 x AWG 26/7
- Wire insulation PE, Ø 1.05 mm
- Sheath material PUR
- Cable sheath diameter 6.3 mm ... 6.9 mm
- Transmission performance Category 6_A, Class E_A up to 500 MHz acc. to ISO/IEC 11801, EN 50 173-1
- Data rate 10 Mbit/s, 100 Mbit/s, 1 Gbit/s, 2,5 Gbit/s, 5 Gbit/s, 10 Gbit/s
- Shielding Paired shielded with additional cable shield
- Operating temperature range -40 °C ... +80 °C
- Colour Yellow

| Identification | Part number | Drawing | Dimensions in mm |
|----------------|-------------|---------|------------------|
|----------------|-------------|---------|------------------|

Industrial Cat. 6_A cable, stranded, 8-wire
PUR

- 20 m ring
- 50 m ring
- 100 m ring
- 500 m drum

- 09 45 600 0630
- 09 45 600 0640
- 09 45 600 0600
- 09 45 600 0620





Industrial Cat. 6_A cable, stranded, 8-wire, PVC, Outdoor

Features

- Sheath material PVC
- Category Cat. 6_A
- Number of wires 8
- Wire design AWG 26/7
- Wire diameter (6.3 ... 6.9) mm

Application

- To build-up flexible connections (one- or two-sided assembled system cable)

Benefits

- Robust design suitable for industry
- Optimal performance reserves
- Usable for outdoor applications
- UV proof
- RoHS compliant
- UL, AWM style 20 276
- Flame retardant

Technical characteristics

- Cable structure 4 x 2, Twisted Pair, shielded, PIMF
- Core structure 4 x 2 x AWG 26/7
- Wire insulation PE, Ø 1.05 mm
- Sheath material PVC
- Cable sheath diameter 6.3 mm ... 6.9 mm
- Transmission performance Category 6_A, Class E_A up to 500 MHz acc. to ISO/IEC 11 801, EN 50 173-1
- Data rate 10 Mbit/s, 100 Mbit/s, 1 Gbit/s, 2,5 Gbit/s, 5 Gbit/s, 10 Gbit/s
- Shielding Paired shielded with additional cable shield
- Operating temperature range -20 °C ... +80 °C
- Colour Black

Identification

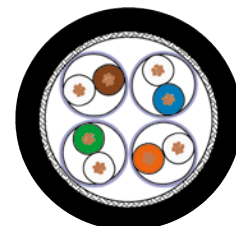
Industrial Cat. 6_A stranded cable, 8-wire, Outdoor
PVC

- 20 m ring
- 50 m ring
- 100 m ring
- 500 m drum

Part number

- 09 45 600 0531
- 09 45 600 0541
- 09 45 600 0501
- 09 45 600 0521

Drawing



Dimensions in mm



Industrial Cat. 7 sea cable, 8-wire, FRNC

Features

- Sheath material FRNC
- Category Cat. 7
- Number of wires 8
- Wire design AWG 26/7
- Wire diameter 7.1 mm

Application

- Especially suitable for data cabling on and below deck of civil ships as well as other offshore applications

Benefits

- Flame retardant, halogen free and RoHS compliant
- Oil and UV resistant
- Suitable for structured cabling acc. to Cat. 7, class F (ISO/IEC 11801 resp. EN 50173)
- Qualified for the transmission of Gigabit- and 10 Gigabit-Ethernet acc. to IEEE 802.3

Technical characteristics

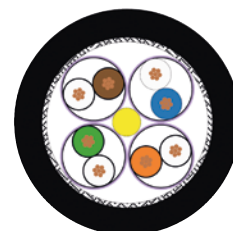
- Core structure 4 x 2 x AWG 26/7
- Sheath material FRNC
- Cable sheath diameter 7.1 mm
- Transmission performance Cat. 7, Class F up to 600 MHz
- Data rate 10 Mbit/s, 100 Mbit/s, 1 Gbit/s, 2,5 Gbit/s, 5 Gbit/s, 10 Gbit/s
- Operating temperature range -40 ... +80 °C
- Colour Black

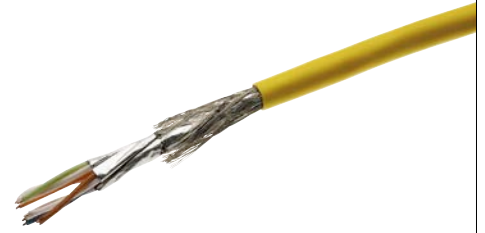
| Identification | Part number | Drawing | Dimensions in mm |
|----------------|-------------|---------|------------------|
|----------------|-------------|---------|------------------|

Industrial Cat. 7 sea cable, 8-wire
FRNC

100 m ring
500 m reel
1000 m reel

09 45 600 0525
09 45 600 0523
09 45 600 0524





Industrial Cat. 7 cable, 8-wire, PUR

Features

- Sheath material PUR
- Category Cat. 7
- Number of wires 8
- Wire design AWG 23/1
- Wire diameter 8.3 mm

Application

- To realize fixed connections, e.g. between control cabinet and industrial outlet (on-site installation of cabling for production halls, equipment or automation applications)

Benefits

- Robust design suitable for industry
- Transmission of Gigabit and 10 Gigabit Ethernet acc. IEEE 802.3 and multimedia services
- Flame retardant
- Oil retardant
- RoHS conform
- Halogen free

Technical characteristics

- Cable structure 4 x 2, Twisted Pair, shielded, PIMF
- Core structure 4 x 2 x AWG 23/1, solid copper wire
- Wire insulation PE, Ø 1.4 mm
- Sheath material PUR
- Cable sheath diameter 8.3 mm
- Transmission performance Category 7, Class F up to 600 MHz
- Data rate 10 Mbit/s, 100 Mbit/s, 1 Gbit/s, 2,5 Gbit/s, 5 Gbit/s, 10 Gbit/s
- Shielding Paired shielded with additional cable shield
- Operating temperature range
fix operation -40 °C ... +70 °C
flexible operation -10 °C ... +50 °C
- Colour Yellow

Cables
8-wire

Identification

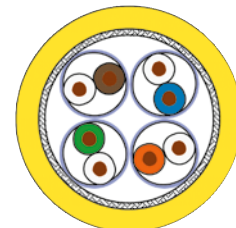
Industrial Cat. 7
installation cable, 8-wire
PUR

100 m ring
500 m reel
1000 m reel

Part number

09 45 600 0651
09 45 600 0650
09 45 600 0660

Drawing



Dimensions in mm



Industrial data cable, 8-wire, Cat. 7_A, PUR

Features

- Sheath material PUR
- Category Cat. 7_A
- Number of wires 8
- Wire design AWG 26/7
- Wire diameter (6.3 ... 6.9) mm

Application

- To build-up flexible connections (one- or two-sided assembled system cable)

Benefits

- Robust design suitable for industry
- Optimal performance reserves
- Flame retardant
- Halogen free
- RoHS compliant
- Oil retardant

Technical characteristics

| | |
|-----------------------------|--|
| Cable structure | 4 x 2, Twisted Pair, shielded, PIMF |
| Core structure | 4 x 2 x AWG 26/7 |
| Wire insulation | PE, Ø 1.05 mm |
| Sheath material | PUR |
| Cable sheath diameter | 6.3 mm ... 6.9 mm |
| Transmission performance | Category 7 _A , Class F _A up to 1200 MHz acc. to ISO/IEC 11801, EN 50 173-1 |
| Data rate | 10 Mbit/s, 100 Mbit/s, 1 Gbit/s, 2,5 Gbit/s, 5 Gbit/s, 10 Gbit/s |
| Shielding | Paired shielded with additional cable shield |
| Operating temperature range | fix operation -40 °C ... +70 °C flexible operation -10 °C ... +50 °C |
| Colour | Yellow |

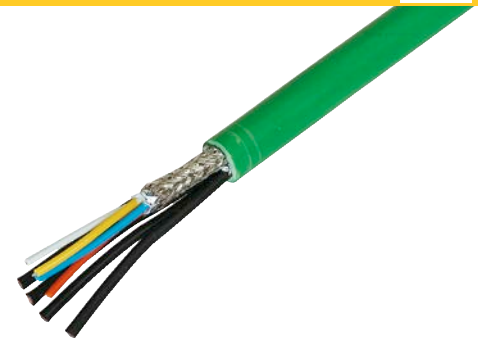
| Identification | Part number | Drawing | Dimensions in mm |
|----------------|-------------|---------|------------------|
|----------------|-------------|---------|------------------|

Industrial data cable
8-wire, Cat. 7_A
PUR

100 m ring
500 m reel
1000 m reel

09 45 600 0711
09 45 600 0721
09 45 600 0751





PROFINET Type B cable, Hybrid Industrial Cat. 5 Hybrid cable, 4-wire + 4x Power to make up Hybrid system cables

Advantages

- Robust design for industrial environment
- PROFINET-conform
- Additional power supply
- Hybrid Cat. 5 cable, 4-wire + 4x Power

Technical characteristics

| | |
|--------------------------|---|
| Cable construction | Star quad + 4 Power cables, double shielded |
| Core structure | 4 x AWG 22/7 + 4 x 1.5 mm ² (conductor 84 x 0.15 mm ²) |
| Sheath material | FRNC, halogen free |
| Cable outer diameter | 9.7 mm |
| Transmission performance | Category 5, Class D up to 100 MHz acc. to ISO/IEC 11801, EN 50 173-1 |
| Data rate | 10 Mbit/s, 100 Mbit/s |
| Shielding | Shielding foil and shielding braid |
| Temperature range | -20 °C ... +70 °C |
| Colour | Green |

Identification

PROFINET Type B cable, Hybrid Industrial Cat. 5 Hybrid cable, 4-wire + 4x Power

- 10 m ring
- 20 m ring
- 50 m ring
- 100 m ring
- 500 m reel

Part number

- 09 45 600 0310
- 09 45 600 0330
- 09 45 600 0340
- 09 45 600 0300
- 09 45 600 0320

Drawing



Dimensions in mm



Industrial Cat. 5 hybrid cable,
8-wire + 3 x 2.5 mm², PVC

Features

- Sheath material PVC
- Category Cat. 5
- Number of wires 8 + 3 x 2.5 mm²
- Wire diameter 11.9 mm

Application

- Suitable for industrial communications for outdoor applications
- Usable for transfer rate up to 1 Gigabit Ethernet 1 GBase-T acc. to IEEE 802.3ab

Benefits

- Robust design suitable for industry
- Good EMC characteristics

Technical characteristics

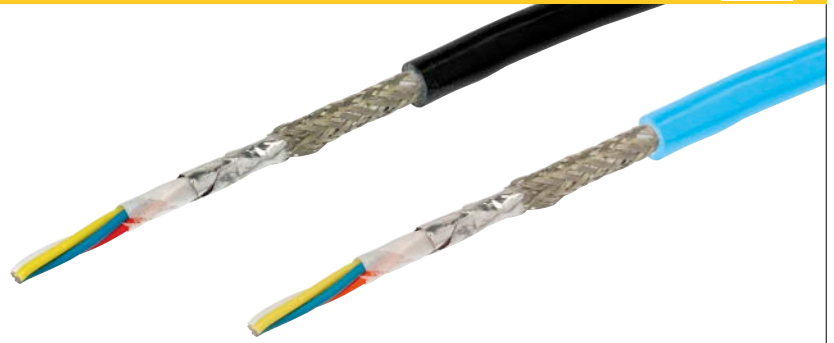
- Cable structure 4 x 2, Twisted Pair, shielded, SF/UTP plus 3 x 2.5 mm²
- Core structure 4 x 2 x AWG 26/7, stranded 3 x 2.5 mm²
- Sheath material PVC
- Cable sheath diameter 11.9 ± 0.4 mm
- Transmission performance Category 5, Class D up to 100 MHz acc. to EN 50288-2-2:2004
- Data rate 10 Mbit/s, 100 Mbit/s, 1 Gbit/s, 2,5 Gbit/s
- Shielding Aluminium foil overlapped tinned copper braid
- Operating temperature range
fix operation -40 °C ... +80 °C
flexible operation -40 °C ... +80 °C
- Colour Black

| Identification | Part number | Drawing | Dimensions in mm |
|----------------|-------------|---------|------------------|
|----------------|-------------|---------|------------------|

Industrial Cat. 5 hybrid cable,
8-wire + 3 x 2.5 mm²
PVC

| | |
|------------|--------------------|
| 10 m ring | 33 57 851 0100 001 |
| 20 m ring | 33 57 851 0200 001 |
| 30 m ring | 33 57 851 0300 001 |
| 100 m reel | 33 57 851 1000 001 |
| 500 m reel | 33 57 851 5000 001 |





Ha-VIS EtherRail® stranded railway cords, Cat. 5, 4-wire

Features

- Sheath material: Elastomer, electron beam cross-linked
- Category: 5
- Number of wires: 4
- Wire design: AWG 22/7
- Wire diameter: (6.6 ± 0.2) mm

Application

- For installation within and outside rail vehicles

Benefits

- Robust design
- Fire protection acc. to EN 45545-1, -2 and -5
- Flame-retardant and heat resistant acc. to DIN 5510 (1-4) and EN 50264-1
- UV protected
- RoHS compliant
- Halogen free
- Small Ø permits RJ45 assembly

Technical characteristics

- Cable structure: Star quad, double shielding
- Core structure: 4 x AWG 22/7, tinned copper wire, stranded
- Wire insulation: PE-Foam Skin, Ø 1.5 mm
- Sheath material: Elastomer, electron beam cross-linked
- Cable sheath diameter: 6.6 ± 0.2 mm
- Transmission performance: Category 5, Class D up to 100 MHz acc. to ISO/IEC 11801, EN 50173-1
- Data rate: 10 Mbit/s, 100 Mbit/s
- Shielding: Shielding foil and shielding braid
- Operating temperature range:
 - fix operation: -40 °C ... +85 °C
 - flexible operation: -25 °C ... +70 °C
- Standard lengths: 100 m/500 m/1000 m
- Colour: Black or blue

| Identification | Part number Elastomer | | Drawing | Dimensions in mm |
|---|---|--|---------|------------------|
| Ha-VIS EtherRail® stranded railway cords, Cat. 5 4-wire | Black | Blue | | |
| | 10 m ring 50 m ring 100 m ring 500 m drum 1000 m drum | 09 45 600 0168 09 45 600 0178 09 45 600 0108 09 45 600 0118 09 45 600 0128 | | |



Ha-VIS EtherRail® ultra flexible railway cords, Cat. 5, 4-wire

Features

- Sheath material: Elastomer, electron beam cross-linked
- Category: 5
- Number of wires: 4
- Wire design: AWG 22/19
- Wire diameter: (7.4 ± 0.1) mm

Application

- For installation within and outside rail vehicles and especially between coaches

Benefits

- Robust design, especially suitable between coaches
- Fire protection acc. to EN 45545-1, -2 and -5
- Flame-retardant and heat resistant acc. to DIN 5510 (1-4) and EN 50264-1
- UV protected
- RoHS compliant
- Halogen free

Technical characteristics

- Cable structure: Star quad, double shielding
- Core structure: 4 x AWG 22/19, tinned copper wire, ultra flexible
- Wire insulation: PE, Ø 1.98 mm
- Sheath material: Elastomer, electron beam cross-linked
- Cable sheath diameter: 7.4 ± 1 mm
- Transmission performance: Category 5, Class D up to 100 MHz acc. to ISO/IEC 11801, EN 50173-1
- Data rate: 10 Mbit/s, 100 Mbit/s
- Shielding: Shielding foil and shielding braid
- Operating temperature range: -40 °C ... +90 °C
- Standard lengths: 100 m/500 m/1000 m
- Colour: Black

| Identification | Part number Elastomer | Drawing | Dimensions in mm |
|--|---|---------|------------------|
| Ha-VIS EtherRail® ultra flexible railway cords, Cat. 5 4-wire 10 m ring 50 m ring 100 m ring 500 m drum 1000 m drum | Black 09 45 600 0188 09 45 600 0189 09 45 600 0138 09 45 600 0148 09 45 600 0158 | | |



HARTING RJ Industrial® 10G system cable, 8-wire, straight

Features

| | |
|-------------------|---------------------------------------|
| • Connector type | HARTING RJ Industrial® 10 G |
| • Category | 6 _A |
| • Number of wires | 8 |
| • Wire design | AWG 24/7 |
| • Wire diameter | (8.1 ± 0.4) mm |
| • Sheath material | Elastomer, electron beam cross-linked |

Application

- For harsh industrial environments
- For installation in railway applications

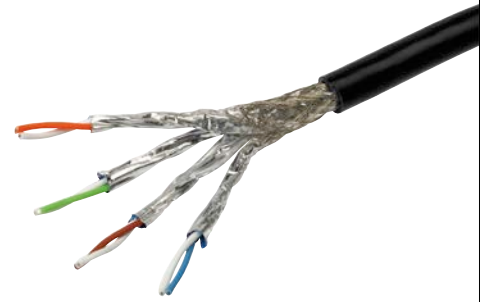
Benefits

- Transmission of Gigabit and 10 Gigabit Ethernet acc. IEEE 802.3 and multimedia services
- Fire protection acc. EN 45545-1, -2 and -5, flame retardant and heat resistant acc. DIN 5510 (1-4) and EN 50 264-1
- UV resistant, RoHS conform, halogen free LSZH

Technical characteristics

| | |
|-----------------------------|---|
| Connector types | HARTING RJ Industrial® 10 G |
| Cable structure | 4 x 2, Twisted Pair, shielded, PIMF |
| Railway cords type | 4 x 2 x AWG 24/7 Category 7, Class F up to 600 MHz acc. to ISO/IEC 11801 and EN 50 173-1 |
| Sheath material | Elastomer, electron beam, cross-linked |
| Cable sheath diameter | (8.1 ± 0.4) mm |
| Transmission performance | Category 6 _A , Class E _A up to 500 MHz acc. to ISO/IEC 11801 and EN 50 173-1 |
| Data rate | 10 Mbit/s, 100 Mbit/s, 1 Gbit/s, 2,5 Gbit/s, 5 Gbit/s, 10 Gbit/s |
| Shielding | Paired shielded with additional cable shield |
| Operating temperature range | -40 °C ... +80 °C |
| Colour | Black |

| Identification | Part number | Drawing | Dimensions in mm |
|---|--------------------|---------|------------------|
| HARTING RJ Industrial® 10G system cable, 8-wire both sides assembled | Black | | |
| Length | | | |
| 0.5 m | 09 48 636 3751 005 | | |
| 1.0 m | 09 48 636 3751 010 | | |
| 2.0 m | 09 48 636 3751 020 | | |
| 5.0 m | 09 48 636 3751 050 | | |
| 7.5 m | 09 48 636 3751 075 | | |
| 10.0 m | 09 48 636 3751 100 | | |



Ha-VIS EtherRail® stranded railway cords, Cat. 7, 8-wire

Features

- Sheath material Elastomer, electron beam cross-linked
- Category 7
- Number of wires 8
- Wire design AWG 24/7
- Wire diameter (8.1 ± 0.4) mm

Application

- For installation within and outside rail vehicles and buses

Benefits

- Transmission of Gigabit and 10 Gigabit Ethernet acc. IEEE 802.3 and multimedia services
- For installation within and outside rail vehicles and buses
- Fire protection acc. EN 45545-1, -2 and -5, flame retardant and heat resistant acc. DIN 5510 (1-4) and EN 50264-1
- UV resistant, RoHS conform, halogen free LSZH
- Designed to be compatible with products from HARTING like *har-speed* M12 Crimp, Han® GigaBit module and RJ45 10G.

Technical characteristics

- Cable structure 4 x 2, Twisted Pair, shielded, PIMF
- Core structure 4 x 2 x AWG 24/7, tinned copper wire
- Wire insulation PE, Ø 1.45 mm
- Sheath material Elastomer, electron beam, cross-linked
- Cable sheath diameter (8.1 ± 0.4) mm
- Transmission performance Category 7, Class D, E, E_A, F up to 600 MHz acc. to ISO/IEC 11801 and EN 50173-1
- Data rate 1 Gbit/s, 10 Gbit/s
- Shielding Paired shielded with additional cable shield
- Operating temperature range -40 °C ... +80 °C
- Colour Black

Identification

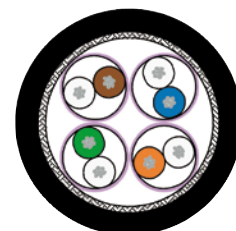
Ha-VIS EtherRail®
flexible data cable, PIMF
4x2xAWG 24/7, Cat. 7

- 10 m ring
- 50 m ring
- 100 m ring
- 500 m reel
- 1000 m reel

Part number

- 09 45 600 0694
- 09 45 600 0693
- 09 45 600 0692
- 09 45 600 0691
- 09 45 600 0690

Drawing



Dimensions in mm