

## Ha-Vis EtherRail 4xAWG22/19 CAT5 500m

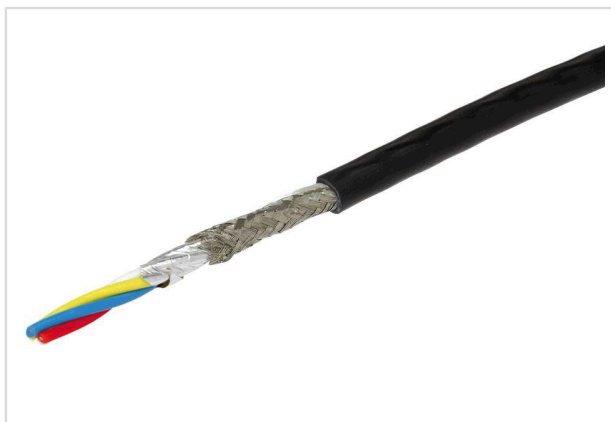


Image is for illustration purposes only. Please refer to product description.

|                    |                                                                                       |
|--------------------|---------------------------------------------------------------------------------------|
| Part number        | 09 45 600 0148                                                                        |
| Specification      | Ha-Vis EtherRail 4xAWG22/19 CAT5 500m                                                 |
| HARTING eCatalogue | <a href="https://b2b.harting.com/09456000148">https://b2b.harting.com/09456000148</a> |

### Identification

|                          |                          |
|--------------------------|--------------------------|
| Category                 | System cabling           |
| Element                  | Bulk cables              |
| Specification            | Not assembled            |
| Type of cable            | Copper cable (round)     |
| Description of the cable | for railway applications |

### Version

|                 |              |
|-----------------|--------------|
| Cable length    | 500 m        |
| Number of cores | 4            |
| Core structure  | 4x AWG 22/19 |

### Technical characteristics

|                                       |                              |
|---------------------------------------|------------------------------|
| Transmission characteristics          | Cat. 5 Class D up to 100 MHz |
| Data rate                             | 10 Mbit/s                    |
|                                       | 100 Mbit/s                   |
| Limiting temperature                  | -40 ... +90 °C               |
| Cable diameter                        | 7.4 mm ± 0.2 mm              |
| Minimum bending radius                | 6x Cable diameter            |
| Test voltage $U_{r.m.s.}$             | 2 kV Wire / wire / shielding |
| Coupling attenuation @ 20 °C / 10 MHz | 8 mΩ/m                       |
| Conductor resistance @ 20 °C          | ≤54.4 Ω/km                   |
| Insulation resistance @ 20 °C         | ≥5,000 MΩ x km               |
| Signal run time @ 20 °C               | ≤4.4 ns/m                    |



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## Technical characteristics

|                     |                        |
|---------------------|------------------------|
| Impedance @ 100 MHz | 100 $\Omega$ $\pm$ 5 % |
|---------------------|------------------------|

## Material properties

|                                      |                                                         |
|--------------------------------------|---------------------------------------------------------|
| Material (cable)                     | Polyolefin copolymer electron beam crosslinked Comp 752 |
| Colour (cable)                       | Black                                                   |
| RoHS                                 | compliant                                               |
| ELV status                           | compliant                                               |
| China RoHS                           | e                                                       |
| REACH Annex XVII substances          | Not contained                                           |
| REACH ANNEX XIV substances           | Not contained                                           |
| REACH SVHC substances                | Not contained                                           |
| California Proposition 65 substances | Not contained                                           |

## Specifications and approvals

|                |                                                |
|----------------|------------------------------------------------|
| Specifications | EN 45545-2 Fire protection on railway vehicles |
|                | EN 50264-1 Fire protection on railway vehicles |
|                | EN 50306-1 Fire protection on railway vehicles |
|                | NFPA 130 Fire protection on railway vehicles   |
|                | UN/ECE-R 118 fire protection for rolling stock |
|                | EN 50306-4 Resistance to ozone                 |
|                | EN 60811-504 High low temperature resistance   |
|                | EN 60811-404 High oil resistance               |
|                | EN 60811-404 High fuel resistance              |
|                | EN 60811-404 Alkali resistance                 |
|                | EN 60811-404 Acid resistance                   |
|                | DIN 51900 Low fire load                        |
|                | EN 50618 UV resistant                          |

## Commercial data

|                                |                                                |
|--------------------------------|------------------------------------------------|
| Packaging size                 | 1                                              |
| Net weight                     | 44,000 g                                       |
| Net weight                     | 75 g/m                                         |
| Country of origin              | Germany                                        |
| European customs tariff number | 85444290                                       |
| GTIN                           | 5713140273238                                  |
| ETIM                           | EC003249                                       |
| eCl@ss                         | 27061801 Data and communication cable (copper) |

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