

# Ha-Vis EtherRail 4x2xAWG24/7 CAT7 50m



| Part number        | 09 45 600 0693                           |
|--------------------|--|
| Specification      | Ha-Vis EtherRail 4x2xAWG24/7 CAT7<br>50m |
| HARTING eCatalogue | https://harting.com/09456000693          |

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

### 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    | 50 m           |
|-----------------|----------------|
| Number of cores | 8              |
| Core structure  | 4x 2x AWG 24/7 |

### Technical characteristics

| Transmission characteristics          | 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 |
| Limiting temperature                  | -40 +80 °C unmoved<br>-25 +70 °C moved                      |
| Cable diameter                        | 8.1 mm ± 0.3 mm   |
| Minimum bending radius                | 6x Cable diameter   |
| Test voltage U <sub>r.m.s.</sub>      | 1 kV Wire / wire / shielding                                |
| Coupling attenuation @ 20 °C / 10 MHz | $5~\text{m}\Omega/\text{m}$                                 |

Page 1 / 3 | Creation date 2025-09-19 | Please note that the data specified here were taken as extracts from the online catalogue. Please refer to the user documentation for the complete and up-to-date information and data. Please also note that the user is responsible for validating functionality, conformity with applicable laws and directives, as well as for the electrical safety in the particular application.

HARTING Customised Solutions GmbH & Co. KG | In der Tütenbeke 22 | 32339 Espelkamp | Germany

Phone +49 5772 47-0 | info@HARTING.com | www.HARTING.com



### Technical characteristics

| Conductor resistance @ 20 °C  | ≤84 Ω/km       |
|-------------------------------|----------------|
| Insulation resistance @ 20 °C | ≥5,000 MΩ x km |
| Signal run time @ 20 °C       | ≤4.4 ns/m      |
| Impedance @ 100 MHz           | 100 Ω ±5 %     |

### Material properties

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

## Specifications and approvals

|                | 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                 |
| Specifications | 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                     | 3,710 g  |
| Net weight                     | 75 g/m   |
| Country of origin              | Switzerland                                    |
| European customs tariff number | 85444993                                       |
| GTIN                           | 5713140273641                                  |
| eCl@ss                         | 27061801 Data and communication cable (copper) |

Page 2 / 3 | Creation date 2025-09-19 | Please note that the data specified here were taken as extracts from the online catalogue. Please refer to the user documentation for the complete and up-to-date information and data. Please also note that the user is responsible for validating functionality, conformity with applicable laws and directives, as well as for the electrical safety in the particular application.

HARTING Customised Solutions GmbH & Co. KG | In der Tütenbeke 22 | 32339 Espelkamp | Germany
Phone +49 5772 47-0 | info@HARTING.com | www.HARTING.com

Product data sheet 09 45 600 0693 Ha-Vis EtherRail 4x2xAWG24/7 CAT7 50m



### Commercial data

ETIM EC003249
UNSPSC 24.0 26121609