

## Ha-Vis EtherRail 4x2xAWG24/7 CAT7 1000m

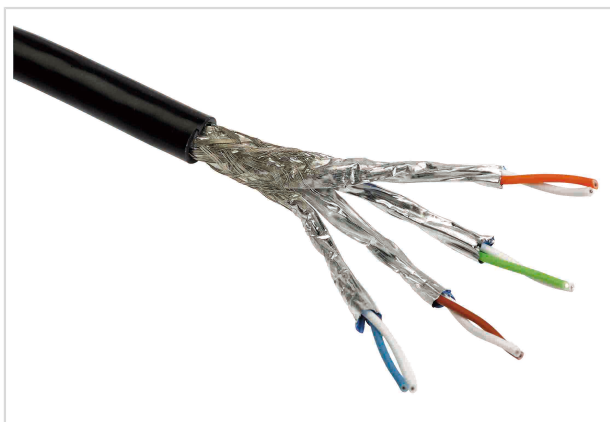


Image is for illustration purposes only. Please refer to product description.

|                    |                                                                                       |
|--------------------|---------------------------------------------------------------------------------------|
| Part number        | 09 45 600 0690                                                                        |
| Specification      | Ha-Vis EtherRail 4x2xAWG24/7 CAT7 1000m                                               |
| HARTING eCatalogue | <a href="https://b2b.harting.com/09456000690">https://b2b.harting.com/09456000690</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    | 1,000 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       |
|                                        | -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 / 100 MHz | 5 mΩ/m                       |



Pushing Performance

## 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                  | e                                                       |
| REACH Annex XVII substances | Not contained                                           |
| REACH ANNEX XIV substances  | Not contained                                           |
| REACH SVHC substances       | Not contained                                           |

## Specifications and approvals

|                |                                                         |
|----------------|---------------------------------------------------------|
| Specifications | EN 45545-2 (HL 1-3) fire protection in railway vehicles |
|                | EN 50264-1 fire protection in railway vehicles          |
|                | EN 50306-1 fire protection in railway vehicles          |
|                | NFPA 130 fire protection in 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                     | 87,000 g                                       |
| Net weight                     | 75 g/m                                         |
| Country of origin              | Switzerland                                    |
| European customs tariff number | 85444290                                       |
| eCl@ss                         | 27061801 Data and communication cable (copper) |