



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China





**Ha-VIS EtherRail®**  
 stranded cable, Cat. 5e, 4-wire  
 for installation within and outside rail vehicles

|    |                                     |        |                          |        |                                     |         |                                     |        |                          |         |                          |        |                          |
|----|-------------------------------------|--------|--------------------------|--------|-------------------------------------|---------|-------------------------------------|--------|--------------------------|---------|--------------------------|--------|--------------------------|
| PE | <input checked="" type="checkbox"/> | 8 wire | <input type="checkbox"/> | 4 wire | <input checked="" type="checkbox"/> | Cat. 5e | <input checked="" type="checkbox"/> | Cat. 6 | <input type="checkbox"/> | Cat. 6A | <input type="checkbox"/> | Cat. 7 | <input type="checkbox"/> |
|----|-------------------------------------|--------|--------------------------|--------|-------------------------------------|---------|-------------------------------------|--------|--------------------------|---------|--------------------------|--------|--------------------------|

|                             |  |
|-----------------------------|--|
| 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 5e / Class D up to 100 MHz<br>acc. to ISO/IEC 11 801:2002, EN 50 173-1                      |
| Transmission rate           | 10/100 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  |
| Tests / Certificats         | Tests and certificats acc. to DIN, N FF, BS and ASTM,<br>detail information see Technical Data sheet |

**Advantages**

- Robust design
- Fire protection acc. to EN 45 545-1, -2 and -5
- Flame-retardant and heat resistant acc. to DIN 5510 (1-4) and EN 50 264-1
- UV protected
- RoHS compliant
- Halogen free
- small Ø permits RJ45 assembly

| Identification  | Part number<br>Elastomer  | Drawing | Dimensions in mm |
|---|---|---------|------------------|
| Ha-VIS EtherRail®<br>stranded cable, Cat. 5e<br>4-wire<br><br>100 m ring<br>500 m drum<br>1000 m drum | Black<br><br>09 45 600 0108<br>09 45 600 0118<br>09 45 600 0128 |         |                  |

4 wire