

M12, male, straight, 4 poles, D-coded, M12, male, straight, 4 poles, D-coded, shielded, rail approved



**Product data**

|                    |                                     |
|--------------------|-------------------------------------|
| Item description   | RA-WASSY4.029-m-RA-WASSY4.029/S4004 |
| Item-No.           | V0005354                            |
| Länge              | on demand                           |
| Customs tariff-No. | 85444290                            |
| Step-File          | RA-WASSY4-L-RA-WASSY4.stp           |

| Technical data           | A-side                     | B-side                     |
|--------------------------|----------------------------|----------------------------|
| Connector                | male, straight, M12        | male, straight, M12        |
| Number of pins           | 4                          | 4                          |
| Pin assignment           | 1 YE, 2 WH, 3 OG, 4 BU     | 1 YE, 2 WH, 3 OG, 4 BU     |
| Coding of                | D                          | D                          |
| Rated voltage            | 250V                       | 250V                       |
| Current load (at 40°C)   | 4A                         | 4A                         |
| Insulation resistance    | ≥10 <sup>9</sup> Ω         | ≥10 <sup>9</sup> Ω         |
| Resistance               | ≤ 5mΩ                      | ≤ 5mΩ                      |
| Transmission features    | Cat5e                      | Cat5e                      |
| Contact material         | Metal, CuZn, gold-plated   | Metal, CuZn, gold-plated   |
| Contact-carrier material | Plastic, PA, BK            | Plastic, PA, BK            |
| Grip body material       | Plastic, TPU, BK           | Plastic, TPU, BK           |
| Coupling nut material    | Metal, CuZn, nickel-plated | Metal, CuZn, nickel-plated |
| Shielding                | with shielding             | with shielding             |
| Standards                | IEC 61076-2-101            | IEC 61076-2-101            |
| Mechanical life-cycle    | >100 mating cycles         | >100 mating cycles         |
| Degree of pollution      | 3                          | 3                          |

**Advanced technical data rail approved**

|                                |  |
|--------------------------------|--|
| Standards                      | DIN EN 50155, DIN EN 45545-2               |
| Shock & vibration              | Class 1, Category B (DIN EN 61373)         |
| Degree of protection (mounted) | IP67 (-30°C...+90°C), IP65 (-40°C...+90°C) |
| Temperature range              | Tx (-40°C...+90°C)                         |
| Fire prevention according to   | DIN EN 45545-2 HL1-3                       |

**Cable web**
**Cat5, RADOX®, ECO, 1x4xAWG22, S4004**

Halogen-free, electron-beam cross-linked Cat5-cable with improved fire performance. Excellent features regarding NEXT, attenuation and screening characteristics (pair- and overall screen). This cable can be used for fixed and protected installation inside of rail vehicles and busses and fulfills the requirements according to EN 45545-2 (HL1 - HL3). It is optimally suited for all Ethernet applications of classes D to F (ECN and ETB) according to IEE-EE 802.3. For installation the guidelines of EN 50355 and EN 50343 must be considered. With a modified composition of materials and consistent technical features, this cable offers a cost-effective alternative to S4003. RADOX® is a registered trademark of HUBER+SUHNER AG, Switzerland.

|                              |   |
|------------------------------|---|
| Outer diameter of jacket     | 7.25 mm   |
| Cable-jacket material        | RADOX® EM 104   |
| Jacket color                 | BU  |
| Wire cross-section           | 1 x 4 x AWG22, star quad  |
| Wire insulation material     | RADOX® COM  |
| Wire colors                  | WH, BU, OG, YE  |
| Bending radius (fixed)       | 6xØ cable   |
| Bending radius (repeated)    | 10xØ cable  |
| Temperature range (fixed)    | -50°C...+90°C   |
| Fire prevention according to | DIN EN 45545-2 HL1-3, DIN 5510 fire prevention-levels 1-4, NF F16-101 category A1, A2, B, UNI CEI 11170, danger level LR1-LR4, NFPA 130, UN ECE R 118 |
| Shielding                    | Yes   |
| Halogen-free                 | Yes   |
| Transmission features        | Cat5e   |
| Special features             | increased thermal load, flame retardant, low emission of smoke, halogen free, oil- and fuel resistant, RoHs compliant                                 |

**Classification**

|            |          |
|------------|----------|
| eCl@ss 6.0 | 27060307 |
| eCl@ss 7.0 | 27060307 |
| eCl@ss 8.0 | 27060307 |
| eCl@ss 9.0 | 27060307 |
| ETIM 5.0   | EC000830 |
| ETIM 6.0   | EC000830 |

**Accessories**
**Torque-wrench set**
<https://www.escha.net/en/products/standard/accessories-for-connectivity/8055431>
**Marking rings Ø 9mm**
<https://www.escha.net/en/products/standard/accessories-for-connectivity?p=1&o=3&n=15&f=809>
**Cable Stripping Tool**
<https://www.escha.net/en/products/standard/accessories-for-connectivity/8066215>
**Mounting-clip, M12**
<https://www.escha.net/en/products/standard/accessories-for-connectivity/8047660>
**Safety-clip, M12**
**Screw cap, M12**
<https://www.escha.net/en/products/standard/accessories-for-connectivity?p=1&o=3&n=15&f=811>