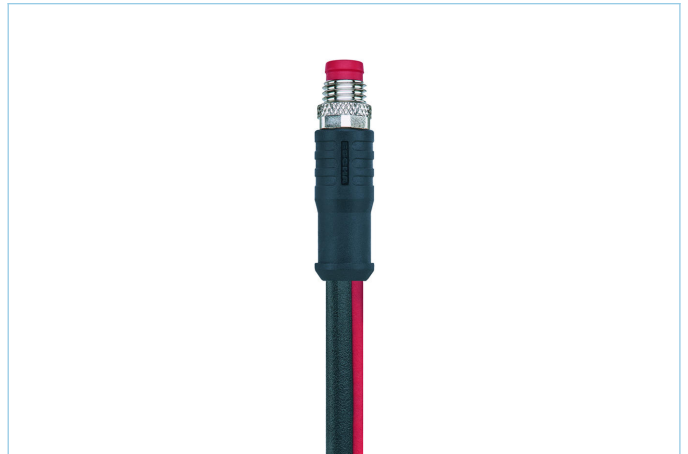
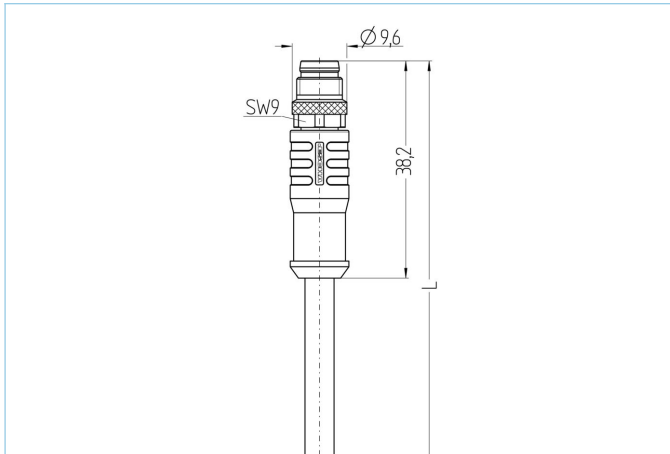


## M8, male, straight, 4 poles, P-coded, shielded, Industrial Ethernet



EtherCAT<sup>®</sup>



### Product data

|                    |                         |
|--------------------|-------------------------|
| Item description   | IE-SSPSP4.054-0,5/S5059 |
| Item-No.           | 8102840                 |
| Length             | 0.5m                    |
| Customs tariff-No. | 85444290                |
| Step-File          | IE-SSPSP4-m_S5059.stp   |
| EAN                | 4047106288044           |

### Technical data

|                                |                                       |
|--------------------------------|---------------------------------------|
| Connector                      | male, straight, M8                    |
| Number of pins                 | 4                                     |
| Pin assignment                 | 1 YE, 2 WH, 3 BU, 4 OG                |
| Coding                         | P                                     |
| Rated voltage                  | 50V <sub>AC</sub>   60V <sub>DC</sub> |
| Current load per pin (at 40°C) | 4A                                    |
| Insulation resistance          | ≥10 <sup>9</sup> Ω                    |
| Resistance                     | ≤ 5mΩ                                 |
| Transmission features          | Cat5e                                 |
| Ambient temperature product    | -30°C...+90°C                         |
| Contact material               | Metal, CuZn, gold-plated              |
| Contact-carrier material       | Plastic, PA, BK                       |
| Grip body material             | Plastic, TPU, BK                      |
| Coupling nut material          | Metal, CuZn, nickel-plated            |
| Shielding                      | with shielding                        |
| Standards                      | IEC 61076-2-104                       |
| Degree of protection (mounted) | IP65, IP67, IP68                      |
| Mechanical life-cycle          | >100 mating cycles                    |
| Cable end assembly             | open cable end                        |
| Degree of pollution            | 3/2                                   |
| Style                          | straight                              |

## Cable web

## Cat5e, PUR, UL, S5059, EtherCAT P

Shielded, PUR-cable for EtherCAT P industrial applications. The cable is UL-verified or meets the Cat5e (electrical properties of EN 50288-2-1) requirements. Materials and a constructive setup allow for increased mechanical stresses (abrasion, bending, vibrations etc.) of the cable. A drag-chain application with up to 2 million bending cycles is possible.

|                              |                                                                                                                                                                                                                                                                                    |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Outer diameter of jacket     | 5.20 mm                                                                                                                                                                                                                                                                            |
| Cable-jacket material        | PUR                                                                                                                                                                                                                                                                                |
| Jacket color                 | BK, with red vertical stripe                                                                                                                                                                                                                                                       |
| Wire cross-section           | 1 x 4 x AWG24, star quad                                                                                                                                                                                                                                                           |
| Wire insulation material     | Foam-Skin Polyolefin                                                                                                                                                                                                                                                               |
| Wire colors                  | YE/OG ; WH/BU                                                                                                                                                                                                                                                                      |
| Wire structure               | 7 x 0,22 mm                                                                                                                                                                                                                                                                        |
| Bending radius (fixed)       | 8 x Ø-cable                                                                                                                                                                                                                                                                        |
| Bending radius (repeated)    | 15 x Ø-cable                                                                                                                                                                                                                                                                       |
| Temperature range (repeated) | -30°C...+70°C                                                                                                                                                                                                                                                                      |
| Temperature range (fixed)    | -40°C...+80°C                                                                                                                                                                                                                                                                      |
| Drag chain-application       | 3 Mio. bending cycles                                                                                                                                                                                                                                                              |
| Halogen-free                 | Yes                                                                                                                                                                                                                                                                                |
| Transmission features        | Cat5e                                                                                                                                                                                                                                                                              |
| Rated voltage cable          | 300 V                                                                                                                                                                                                                                                                              |
| Special features             | EtherCAT P compliant, flame retardant, halogen free, high flexibility, hydrolysis proof, LABS free, microbes resistant, oil resistant, ozone resistant, recyclable, RoHS compliant, acid- and alkali resistant, drag chain-adapted, seawater resistant, UN ECE R 118, UV resistant |

## 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

### Mounting-clip, M8

<https://www.escha.net/en/products/standard/accessories-for-connectivity/8047658>

### 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>

### Screw cap, M8

<https://www.escha.net/en/products/standard/accessories-for-connectivity/8081761>

### Cable Stripping Tool

<https://www.escha.net/en/products/standard/accessories-for-connectivity/8066215>

### Cable Stripping Tool

<https://www.escha.net/en/products/standard/accessories-for-connectivity/8066216>