| 7433508910 | DATA SHEET | LAPP |
|---|---|---|
| Valid from: 10.07.2026 | EPIC® MC04C1LSDSB-22LB20-R | |

## Description



- M12 Connector D-coded 4 Pin for Train application
- Cable end M12 male to open end cable
- S/FTQ CAT5E XL-LSZH shielded
- In accordance with EN45545-2 and EN50155

## Product variations

| Article no. | Article description | P1 - cable end | P2 - cable end | Length (mm) |
|---|---|---|---|---|
| 7433508910 | EPIC® MC04C1LSDSB-22LK20-R | Connector, straight | Open end | 2000 +100/-20 |
| 7433508911 | EPIC® MC04C1LSDSB-22LK50-R | Connector, straight | Open end | 5000 +150/-30 |
| 7433508912 | EPIC® MC04C1LSDSB-22LK100-R | Connector, straight | Open end | 10000 +200/-50 |
| 743350xxxx | EPIC® MC04C1LSDSB-22LKxxx-R | Connector, straight | Open end | x |

x = Alternative lengths are available on request. The data sheet also applies to different lengths.

## Connector, general characteristics

| | |
|---|---|
| Coding | D-Coding |
| Number of poles / pins | 4 |
| Product standard | IEC 61076-2-101 |
| Shielded | YES |
| Protection class | IP 67 |
| Pollution degree | 3 |
| Temperature rating (connected) | -40 up to +80°C |
| Temperature rating (mating) | -25 up to +80°C |
| Plugging cycles | ≥ 100 |
| Tightening torque | Recommended:0.4 Nm<br>Max:0.8 Nm |

## Connector, electrical properties

| | |
|---|---|
| Rated voltage | 60V DC |
| Rated surge voltage | 1500 V |
| Rated current | 4 A |
| Insulation resistance | ≥ 100 MΩ |
| Contact resistance of connector | ≤ 5 mΩ |

## Connector, materials

| | |
|---|---|
| Contacts- connector | Brass, gold plated |
| Insert | PA66+25GF |
| Over mold | TPU/ Black |
| Threaded part | Brass, nickel plated |



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## Cable, general characteristics

| | |
|---|---|
| AWM Style | EN50288-2-2,IEC61156-6 |
| Conductor cross-section | 22 AWG |
| Number of conductors | 1 White ,2 Yellow , 3 Blue, 4 Orange |
| Core outer diameter | 1.49 ±0.05mm |
| Coverage of Braid | 80% |
| Jacket outer diameter | 7.0±0.3mm |
| Temperature rating (fixed) | -40 up to +80°C |
| Temperature rating (flexible) | 0 up to +50°C |
| Bending radius (fixed) | 6 x OD min. |
| Bending radius (flexible) | 8 x OD min |
| Flame resistance | IEC60332-3-25 |
| Halogen-free | EN50267-2-1/ EN50267-2-2 |
| Oil resistance | EN60811-2-1 10 |
| Fuel resistance | EN60811-2-1 10 |
| Acid resistance | EN60811-2-1 10 |
| Alkaline resistance | EN60811-2-1 10 |
| Ozone resistance | EN50305 7.4.2 |
| Hot set test | EN 60811-2-1 9 |

## Cable, electrical properties

| | |
|---|---|
| Rated voltage | 300 V |
| Conductor resistance | MAX 57.4 Ω/km at 20°C |
| Insulation resistance | 5000MΩ.KM |
| Data transmission category | CAT5E |

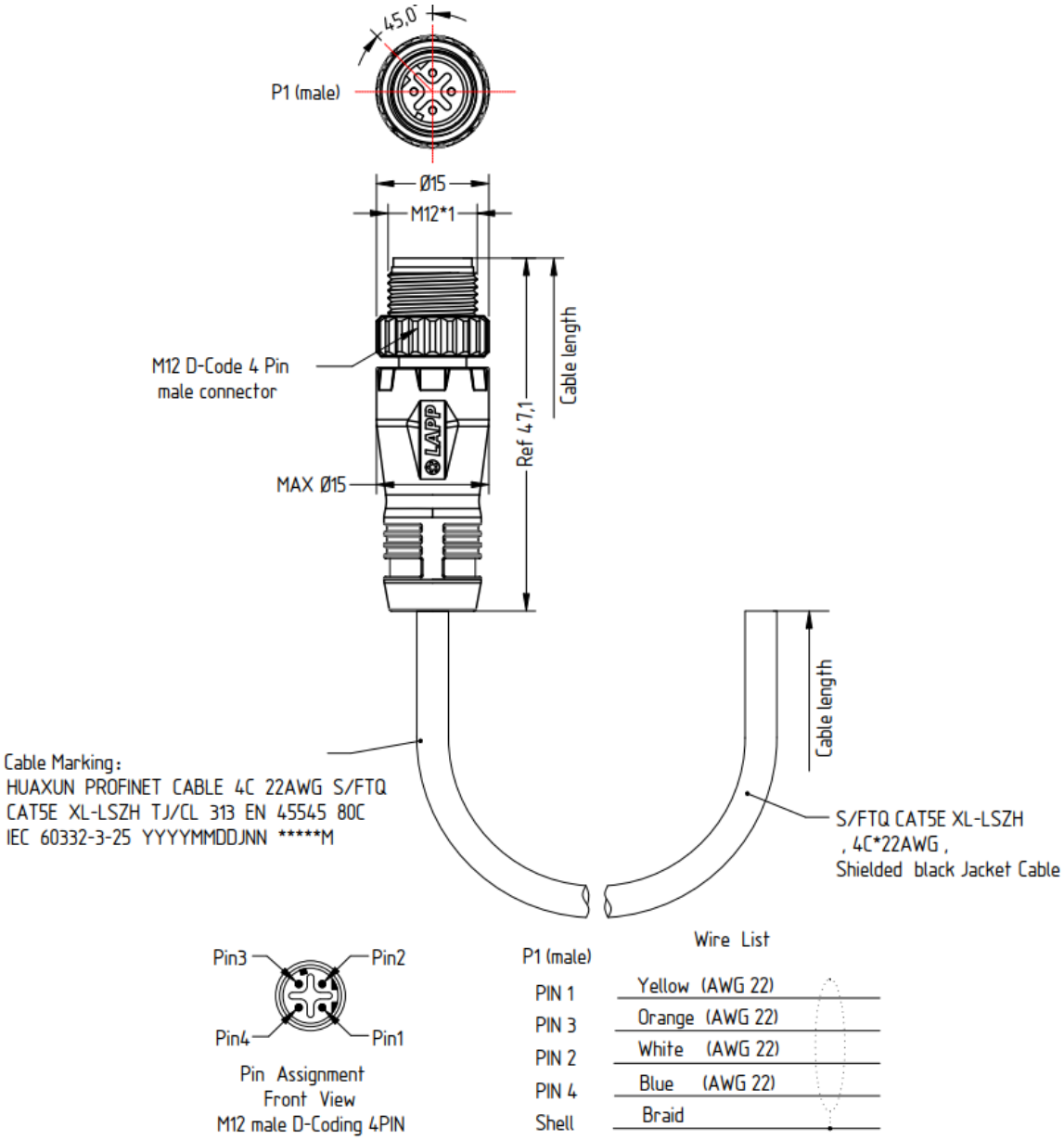
## Cable, materials

| | |
|---|---|
| Conductor | Stranded tinned copper |
| Conductor insulation | PE |
| Braid | Tinned Copper |
| Jacket | XL-LSZH, Black |

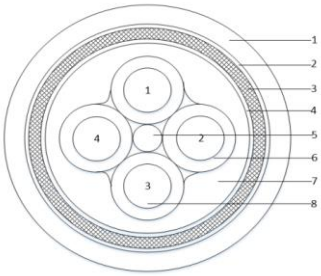


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## Drawings




## Cross section




| | |
|---|---|
| 1 | Jacket |
| 2 | Flame retardant tape |
| 3 | Braid |
| 4 | AL-mylar |
| 5 | Filler |
| 6 | Insulation |
| 7 | Inner-jacket |
| 8 | Conductor |

## Remark

Photographs are not to scale and do not represent detailed images of the respective products.



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