



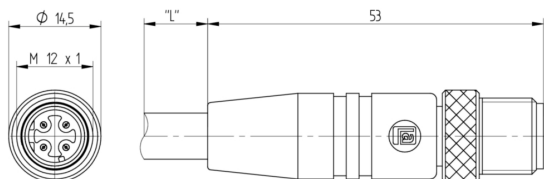
**Product:** [0985 508 120](#)

Fast Ethernet Cat5e Data Single-Ended Cordset: M12 Railway, male, straight, 4-pin, D-coded, shielded, black body, 50 V AC / 60 V DC, 4 A; X-FRNC black cable, 4-wires, 0.34 mm<sup>2</sup>

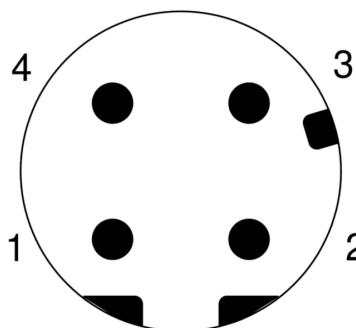
### Product Description

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### Technical Drawing



Male



### Technical Specifications

#### Face View

Pin 1	Pin 2	Pin 3	Pin 4
yellow	white	orange	blue

#### Technical Data

Product Family:	Data Connectors
Product Sub Family:	M12 Railway
Brand:	Lumberg Automation
Connector Type:	Cordset, single ended
Type of Contact / Gender:	Male
Connector Design:	Straight
Number of Pins:	4
Coding:	D
Shielding:	Shielded
Attachment Type:	Coupling Screw
Rated Voltage:	60 V
Rated Impulse Voltage:	1.5 kV
Operating Voltage:	50 V AC / 60 V DC
Rated Current*:	4 A
Data Transmission:	Fast Ethernet Cat5e

Data Transmission Rate:	100 Mbit/s
Contact Resistance:	≤ 10 mOhm
Insulation Resistance:	> 10 <sup>9</sup> Ohm
Mating Cycles:	≤ 100
Ambient Temperature (Operation)*:	- 40 °C - + 90 °C
Protection Degree / IP Rating**:	IP65, IP67, IP69K
Design Standard:	IEC 61076-2-101
Pollution Degree:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
Overtoltage Category:	III acc. to DIN EN 60664-1 (VDE 0110-1)

## Materials

Contact Base Material:	CuSn
Contact Plating:	Cu/Au
Contact Bearer Material:	PA
Contact Bearer Color:	Black
Flammability Class (Contact Bearer):	UL 94 V-0
Molded Body Material:	PA
Molded Body Color:	Black
Flammability Class (Molded Body):	UL 94 V-0
Attachment Material:	CuZn
Attachment Plating:	Nickel-plated
Shielding Material:	CuZn, tin-plated

## Additional Technical Data

Fastening Torque (Attachment):	M 12x1: (50-60) Ncm, hand-tight
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## Cable Data

Cable Number:	508
Conductor Size:	0.34 mm <sup>2</sup>
Number of Wires:	4
Minimal Bending Radius (Fixed Inst):	> 10 x D
Minimal Bending Radius (Flexible Inst):	> 5 x D
Conductor material:	Cu
Cable Jacket Material:	X-FRNC
Cable Jacket Color:	black
Cable Diameter D:	ø 6.70 ± 0.30 mm
Wire Insulation Material:	Polyolefin
Insulated Wire Diameter:	ø 1.63 ± 0.05 mm
Overall Shield (Cable):	Cu-ETP1 tinned
Foil shield:	Al-PT Foil
Ambient Temperature (Fixed Installation):	- 40 °C - + 90 °C
Ambient Temperature (Flex Installation):	- 40 °C - + 90 °C
Ambient Temperature (Drag Chain Inst):	- 5 °C - + 50 °C
Flammability Class (Cable Jacket):	IEC 60332-1-2, EN50305, IEC60332-3-25 cat D; fire protection Railway vehicles: DIN 5510-2 protection level 1 to 4; CEN/TS 45545-2 HL1-HL3; smoke density acc. to DIN EN 61034-2, EN50268-2: T >70% ;toxicity (NF X70-100-1): CITc < 0.7
Core Colors:	white, blue, yellow, orange

## Safety & Environmental Compliance

RoHS Compliant:	yes
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## Resistances

Halogenfree:	IEC 60754-1, EN 50267-1-2, HCL < 0.4%
Rail:	yes
Oil Resistance:	IEC 60811-2-1, EN 50306 par 4.8, EN 50306 par 4.9, EN 50306 par 4.10

## Notes

Note Derating:	Notice derating
Protection Degree / IP Rating Note:	** only if mounted and locked in combination with Hirschmann / Lumberg Automation connector.
Note:	Do not connect or disconnect under load.

## Variants

Item #	Item Description	Cable Length
934688015	0985 508 120/1 M	1 m
934688011	0985 508 120/2 M	2 m
9937	0985 508 120/3 M	3 m
17390	0985 508 120/4 M	4 m
934688012	0985 508 120/5 M	5 m
17389	0985 508 120/6 M	6 m
934688013	0985 508 120/10 M	10 m
934688014	0985 508 120/15 M	15 m
9942	0985 508 120/20 M	20 m
15573	0985 508 120/30 M	30 m

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