



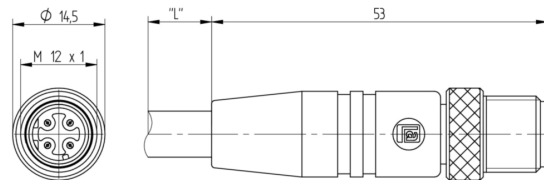
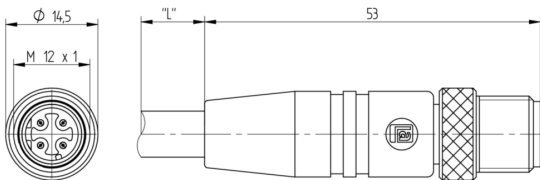
**Product:** [0985 508 121](#)

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

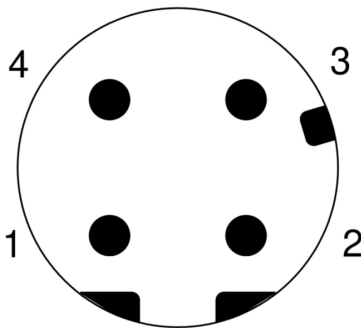
### Product Description

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

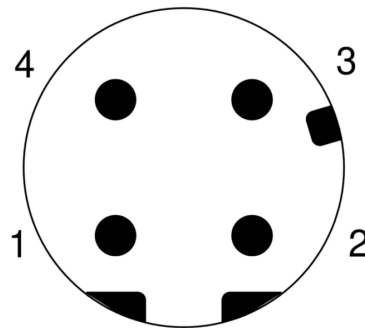
### Technical Drawing



Male



Male



### Technical Specifications

Face View Side 1

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

Face View Side 2

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

Product Description

Product Family:	Data Connectors
Brand:	Lumberg Automation
Connector Type:	Cordset, double ended
Shielding:	Shielded
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

Technical Data Side 1

Product Sub Family:	M12 Railway
Type of Contact / Gender:	Male
Connector Design:	Straight
Attachment Type:	Coupling Screw
Number of Pins:	4
Coding:	D
Contact Resistance:	≤ 10 mOhm
Insulation Resistance:	> 10^9 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)
Overvoltage Category:	III acc. to DIN EN 60664-1 (VDE 0110-1)
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
Fastening Torque (Attachment):	M 12x1: (50-60) Ncm, hand-tight
Note:	Do not connect or disconnect under load.

Cable Data

Cable Number:	508
Conductor Size:	0.34 mm²
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

Technical Data Side 2

Product Sub Family, Side 2:	M12 Railway
Type of Contact / Gender, Side 2:	Male
Connector Design, Side 2:	Straight
Attachment Type, Side 2:	Coupling Screw
Number of Pins, Side 2:	4
Coding, Side 2:	D
Contact Resistance, Side 2:	≤ 10 mOhm
Insulation Resistance, Side 2:	> 10 <sup>9</sup> Ohm
Mating Cycles, Side 2:	≤ 100
Ambient Temperature (Operation), Side 2*:	- 40 °C - + 90 °C
Protection Degree / IP Rating, Side 2**:	IP65, IP67, IP69K
Design Standard, Side 2:	IEC 61076-2-101
Pollution Degree, Side 2:	3 acc. to DIN EN 60664-1 (VDE 0110-1)
Overvoltage Category, Side 2:	III acc. to DIN EN 60664-1 (VDE 0110-1)
Contact Base Material, Side 2:	CuSn
Contact Plating, Side 2:	Cu/Au
Contact Bearer Material, Side 2:	PA
Contact Bearer Color, Side 2:	Black
Flammability Class (Contact Bearer), Side 2:	UL 94 V-0
Molded Body Material, Side 2:	PA
Molded Body Color, Side 2:	Black
Flammability Class (Molded Body), Side 2:	UL 94 V-0
Attachment Material, Side 2:	CuZn
Attachment Plating, Side 2:	Nickel-plated
Shielding Material, Side 2:	CuZn, tin-plated
Fastening Torque (Attachment), Side 2:	M 12x1: (50-60) Ncm, hand-tight

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

Protection Degree / IP Rating Note:	** only if mounted and locked in combination with Hirschmann / Lumberg Automation connector.
Note Derating:	Notice derating

History

Update and Revision:	Revision Number: 0.76 Revision Date: 02-03-2025
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Variants

Item #	Item Description	Cable Length
934688018	0985 508 121/0,5 M	0.5 m

934688019	0985 508 121/1 M	1 m
934688020	0985 508 121/1,5 M	1.5 m
934688007	0985 508 121/2 M	2 m
934688008	0985 508 121/5 M	5 m
934688009	0985 508 121/10 M	10 m
934688010	0985 508 121/15 M	15 m
16850	0985 508 121/16 M	16 m
7230	0985 508 121/20 M	20 m
9558	0985 508 121/25 M	25 m
16852	0985 508 121/30 M	30 m
16851	0985 508 121/32 M	32 m
16849	0985 508 121/42 M	42 m

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