

NC series - IO-Link Masters, I/O Modules and Accessories



- > Industrial Ethernet connectivity products
- > IO-Link Master provide a gateway to PROFINET and EtherNet/IP
- > Standard building blocks make system design modular and simple
- > Installation time is reduced as all cables are premade, plug and socket, making it all plug and play
- > IO-Link enabled Valve Manifolds can be connected to a master port on a single standard cable
- > Electrical design is simplified as the I/O Modules can be configured depending on the input and output requirement.
- > Diagnostics can pinpoint faults in the whole network quickly and precisely



EtherNet/IP



Main technical features - IO-Link Masters

Operating voltage (V):
20...30 DC; (US; to SELV/PELV)

Current consumption (mA):
300...3900; (US)

Protection class: III

Additional voltage supply (V):
20...30 DC; (UA)

Max. current load total (A):
8

Current rating per port (A):
2; (adjustable: 0...2; Factory setting: 2)

Total number of inputs and outputs:
24; (configurable)

Number of digital inputs:
12; (IO-Link Port Class A: 4 x 2)
(IO-Link Port Class B: 4 x 1)

Number of digital outputs:
12

Ethernet transmission standard:
10Base-T; 100Base-TX

Ethernet transmission rate:
10; 100

IO-Link Master transmission type:
COM 1/COM 2/COM 3

IO-Link revision:
1.1

IO-Link Master number of ports class A:
4

IO-Link Master number of ports class B:
4

Ambient temperature:
-13 ... 140°F (-25...60°C)

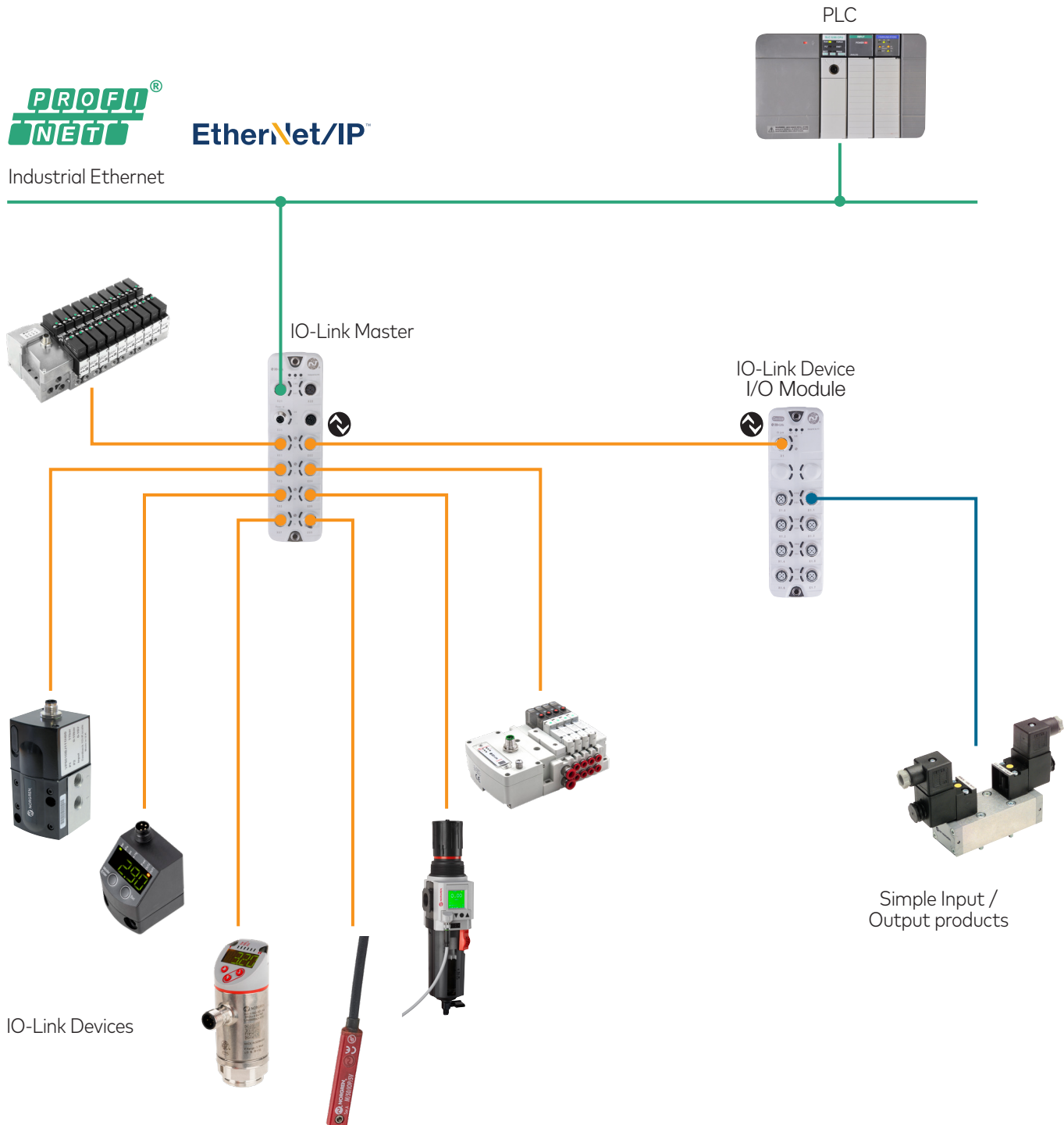
Storage temperature:
-13 ... 185°F (-25...85°C)

Max. relative air humidity:
90%

Protection:
IP 65; IP 66; IP 67

Materials
Housing: PA
Socket: brass nickel plated

Example System Layout



IO-Link Masters/I/O Modules/Accessories

Product Description			Technical data page	Drawing page	Model
	PROFINET IO-Link Master	Port Class A (4x) + Port Class B (4x)	6	24	NC-MP-4A4B-12DLA
	EtherNet/IP IO-Link Master	Port Class A (4x) + Port Class B (4x)	6	24	NC-ME-4A4B-12DLA
	I/O Module Standard	8 Port without Auxillary Power 16 x I/O Configurable	8	24	NC-HB-8A5F-12A0A
	I/O Module with Auxillary Power	8 Port with Auxillary Power 16 x I/O Configurable	8	24	NC-HA-8A5F-12AAA
	Y-Splitter 2 x M12 - 1 x M12	2 x I/O into one port on I/O Module	10	25	NC-TS-124F-125M0
	Y-Splitter 2 x M8 - 1 x M12	2 x I/O into one port on I/O Module	10	25	NC-TS-083F-124M0
	Protective Cap M12	Cover for unused ports	11	25	NC-PC-1200-00000
	Protective Cap M8	Cover for unused ports	11	25	NC-PC-0800-00000

Industrial Ethernet - Cable and Connectors

Product Description			Compatible product:	Technical data page	Drawing page	Model
	Industrial Ethernet cable 4 Pin D-coded	M12 - M12 x 0.5 meter long	IO-Link Master	12	28	NC-124MS-1244SGA
	Industrial Ethernet cable 4 Pin D-coded	M12 - M12 x 2 meter long		12	28	NC-124MS-1244SG2
	Industrial Ethernet cable 4 Pin D-coded	M12 - M12 x 5 meter long		12	28	NC-124MS-1244SG5
	Industrial Ethernet cable 4 Pin D-coded	M12 - Open End x 2 meter long		12	28	NC-124MS-00000G2
	Industrial Ethernet cable 4 Pin D-coded	M12 - Open End x 5 meter long		12	28	NC-124MS-00000G5
	Industrial Ethernet M12 4 Pin D-coded	Wireable connector		13	28	NC-124MS-WIRE0D0
	Industrial Ethernet RJ45	RJ45 wireable connector		13	28	NC-RJ450-0000000

Power Cables

	Product Description		Compatible product:	Technical data page	Drawing page	Model
	Power Cable 5 Pin L - coded	M12 - M12 x 2 meter long	IO-Link Master	14	27	NC-125FS-125MSL2
	Power Cable 5 Pin L - coded	M12 - M12 x 5 meter long		14	27	NC-125FS-125MSL5
	Power Cable 5 Pin L - coded	M12 - Open End x 2 meter long		14	27	NC-125FS-00000L2
	Power Cable 5 Pin L - coded	M12 - Open End x 5 meter long		14	27	NC-125FS-00000L5
	Power Socket 4 Pin L-coded	M12 - Wireable		15	27	NC-125FS-WIRE0L0
	Power Plug 5 Pin L - coded	M12 - Wireable		15	27	NC-125FM-WIRE0L0
	Cable 5 Pin A-coded	M12 - Open End x 5 meter long	I/O Module with Auxillary Power	15	27	NC-125FS-00000-5

Connector Cables and Plugs

	Product Description		Compatible product:	Technical data page	Drawing page	Model
	Cable 3 Pin A-coded M8 - M8 x 0.6 meter long		Actuator sensors M/50/LSU/CP*, M/50/EAP/CP*	17	29	NC-083FS-083MS-A
	Cable 3 Pin A-coded M8 - M8 x 1 meter long			17	29	NC-083FS-083MS-1
	Cable 3 Pin A-coded M8 - M8 x 2 meter long			17	29	NC-083FS-083MS-2
	Cable 3 Pin A-coded M8 - M8 x 5 meter long			17	29	NC-083FS-083MS-5
	Cable 3 Pin A-coded M8 - Open End x 5 meter long			17	29	NC-083FS-00000-5
	Cable 4 Pin A-coded M8 - M12 x 0.6 meter long		Pressure sensors 54D*	18	29	NC-084FS-124MS-A
	Cable 4 Pin A-coded M8 - M12 x 1 meter long			18	29	NC-084FS-124MS-1
	Cable 4 Pin A-coded M8 - M12 x 2 meter long			18	29	NC-084FS-124MS-2
	Cable 4 Pin A-coded M8 - M12 x 5 meter long			18	29	NC-084FS-124MS-5
	Cable 4 Pin A-coded M8 - Open End x 5 meter long			18	29	NC-084FS-00000-5
	Cable 5 Pin A-coded M12 - M12 x 0.6 meter long		Pressure sensors 34D*	19	29	NC-125FS-125MS-A
	Cable 5 Pin A-coded M12 - M12 x 1 meter long			19	29	NC-125FS-125MS-1
	Cable 5 Pin A-coded M12 - M12 x 2 meter long			19	29	NC-125FS-125MS-2
	Cable 5 Pin A-coded M12 - M12 x 5 meter long			19	29	NC-125FS-125MS-5
	Cable 5 Pin A-coded M12 - Open End x 5 meter long			19	29	NC-125FS-00000-5
	Plug 3 Pin A-coded M8 - Wireable male			20	30	NC-083MS-WIRE0AO
	Plug 4 Pin A-coded M8 - Wireable male			20	30	NC-084MS-WIRE0AO
	Plug 4 Pin A-coded M12 - Wireable male			20	30	NC-124MS-WIRE0AO
	Plug 5 Pin A-coded M12 - Wireable male			20	30	NC-125MS-WIRE0AO

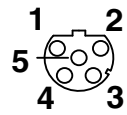
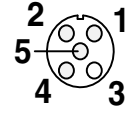
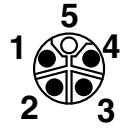
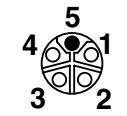
Valve Connectors

	Product Description	Compatible product:	Technical data page	Drawing page	Model
	DIN form A Solenoid Connector with LED - 3 Pin A-coded M12 x 0.6 meter long	Example - Solenoid valve series SXE with 23N, 33N coil	21	31	NC-DINAA-123MS-A
	DIN form A Solenoid Connector with LED - 3 Pin A-coded M12 x 1 meter long		21	31	NC-DINAA-123MS-1
	DIN form A Solenoid Connector with LED - 3 Pin A-coded M12 x 2 meter long		21	31	NC-DINAA-123MS-2
	DIN form A Solenoid Connector with LED - 3 Pin A-coded M12 x 5 meter long		21	31	NC-DINAA-123MS-5
	DIN form B Industrial Standard Solenoid Connector with LED - 3 Pin A-coded M12 x 0.6 meter long	Example - solenoid valves series V60-63 and SXE series with 13J coil	23	31	NC-DINIA-123MS-A
	DIN form B Industrial Standard Solenoid Connector with LED - 3 Pin A-coded M12 x 1 meter long		23	31	NC-DINIA-123MS-1
	DIN form B Industrial Standard Solenoid Connector with LED - 3 Pin A-coded M12 x 2 meter long		23	31	NC-DINIA-123MS-2
	DIN form B Industrial Standard Solenoid Connector with LED - 3 Pin A-coded M12 x 5 meter long		23	31	NC-DINIA-123MS-5
	DIN form C Solenoid Connector with LED - 3 Pin A-coded M12 x 0.6 meter long	Example - solenoid valves series V40/V41, V44/V45 with C313A coil	24	32	NC-DINCA-123MS-A
	DIN form C Solenoid Connector with LED - 3 Pin A-coded M12 x 1 meter long		24	32	NC-DINCA-123MS-1
	DIN form C Solenoid Connector with LED - 3 Pin A-coded M12 x 2 meter long		24	32	NC-DINCA-123MS-2
	DIN form C Solenoid Connector with LED - 3 Pin A-coded M12 x 5 meter long		24	32	NC-DINCA-123MS-5



IO-Link Masters Technical Data

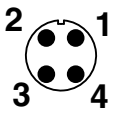
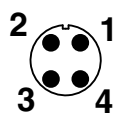
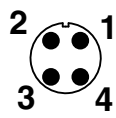
Model	IO-Link Master with PROFINET Interface NC-MP-4A4B-12DLA	IO-Link Master with EtherNet/IP Interface NC-ME-4A4B-12DLA
Application		
Application	I/O modules for field applications	
Daisy-chain function	voltage supply; Ethernet interface	
Electrical data		
Operating voltage (V)	20...30 DC; (US; to SELV/PELV)	
Current consumption (mA)	300...3900; (US)	
Protection class	III	
Additional voltage supply (V)	20...30 DC; (UA)	
Actuator supply UA		
Max. current load total (A)	8	
Current rating per port (A)	2; (adjustable: 0...2; Factory setting: 2)	
Sensor supply US		
Max. current load total (A)	3.6	
Current rating per port (A)	2; (adjustable: 0...2; Factory setting: 0,45)	
Inputs/outputs		
Total number of inputs and outputs	16; (configurable)	
Number of inputs and outputs	Number of digital inputs: 12; Number of digital outputs: 12	
Inputs		
Number of digital inputs	12; (IO-Link Port Class A: 4 x 2; IO-Link Port Class B: 4 x 1)	
Switching level high (V)	11...30	
Switching level low (V)	0...5	
Digital inputs protected against short circuits	yes	
Outputs		
Number of digital outputs	12; (IO-Link Port Class A: 4 x 1; IO-Link Port Class B: 4 x 2)	
Short-circuit proof	yes	
Actuator supply UA		
Max. current load per output (mA)	2000	
Sensor supply US		
Max. current load per output (mA)	2000	
Interfaces		
Communication interface	Ethernet ; IO-Link	
Ethernet		
Transmission standard	10Base-T; 100Base-TX	
Transmission rate	10; 100	
Protocol	PROFINET	EtherNet/IP
Factory settings	IP address: 0.0.0.0	IP address: 192.168.1.250
	subnet mask: 0.0.0.0	subnet mask: 255.255.255.0
	gateway IP address: 0.0.0.0	
	MAC address: see type label	
Note on interfaces	CC-C (Conformance Class C); S2-Redundancy; Configuration in Run (CiR); IRT Capability; SNMP	Supported network topologies; line; ring; DLR
IO-Link Master		
Transmission type	COM 1/COM 2/COM 3	
IO-Link revision	1,1	
Number of ports class A	4	
Number of ports class B	4	
Operating conditions		
Ambient temperature °F (°C)	-13...140 (-25...60)	
Storage temperature °F (°C)	-13...+185 (-25 ... +85)	
Max. relative air humidity (%)	90	
Protection	IP 65; IP 66; IP 67	
Degree of soiling	2	

Model	IO-Link Master with PROFINET Interface NC-MP-4A4B-12DLA	IO-Link Master with EtherNet/IP Interface NC-ME-4A4B-12DLA
Tests/Approvals		
EMC		EN 61000-6-2 EN 61000-6-4
Shock resistance		DIN EN 60068-2-27
Vibration resistance		DIN EN 60068-2-64 2009-04 DIN EN 60068-2-6 2008-10
MTTF (years)	46	
Mechanical data		
Weight oz (g)		14.54 (412.1)
Materials		housing: PA; socket: brass nickel-plated
Electrical connection - Ethernet		
IN/OUT XF1, XF2		
1		TX +
2		RX +
3		TX -
4		RX -
5		not used
Connector: M12		
Electrical connection - Process connection		
IO-Link Port Class B X1...X4		
1		Sensor supply (US) L +
2		digital output (UA) L+
3		Sensor supply (US) L-
4		C/Q IO-Link
5		actuator supply (UA) L-
IO-Link Port Class A X5...X8		
1		Sensor supply (US) L+
2		digital input (US)
3		Sensor supply (US) L-
4		C/Q IO-Link
5		not used
Connector: M12		
Electrical connection - voltage supply IN		
XD1		
1		+ 24 V DC (US) brown
2		GND (UA) white
3		GND (US) blue
4		+ 24 V DC (UA) black
5		FE grey
Connector: M12		
Electrical connection - voltage supply OUT		
XD2		
1		+ 24 V DC (US) brown
2		GND (UA) white
3		GND (US) blue
4		+ 24 V DC (UA) black
5		FE grey
Connector: M12		



IO-Link I/O Modules Technical Data

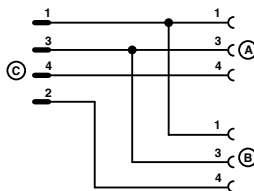
Model	IO-Link I/O Module - with Auxillary Power NC-HA-8A5F-12AAA	IO-Link I/O Module - Standard NC-HB-8A5F-12A0A
Electrical data	AL2225	AL2221
Operating voltage (V)		18...30 DC
Current consumption (mA)		100; (US)
Protection class		III
Additional voltage supply (V)		18...30 DC; (UA; UAi)
Max. current consumption from additional supply (mA) from additional supply (mA)		4000; (UA; UAi: 400 mA)
Inputs/outputs		
Number of inputs and outputs		Number of digital inputs: 16 Number of digital outputs: 16
Inputs		
Number of digital inputs		16; (configurable)
Input circuit of digital inputs		PNP; (type 3 (IEC 61131-2))
Sensor supply of the inputs	AUX (UA, UAi)	US
Voltage supply (V)		18...30
Outputs		
Number of digital outputs		16; (configurable)
Max. current load per output (mA)	1800	1000
Max. current load outputs total (mA)	3600; (max. current load per segment : 1800 mA)	1000
Short-circuit protection		yes
Actuator supply switching outputs	AUX (UA)	US
Interfaces		
Communication interface		IO-Link
SDCI standard		IEC 61131-9
Transmission type		COM3 (230.4 kBaud)
IO-Link revision		1.1
SIO mode		no
Required master port type		A
Min. process cycle time (ms)		4
Supported Device IDs	Type of operation	Device ID
	Default	1314
Operating conditions		
Ambient temperature °F (°C)		-13...140 (-25...60)
Storage temperature °F (°C)		-13...158 (-25...70)
Max. relative air humidity (%)		75
Max. height above sea level ft (m)		6562 (2000)
Protection	IP 65; IP 67; IP 69K; (operation with stainless steel protective caps: IP69K)	
Degree of soiling		2
Tests/Approvals		
EMC		EN 61000-6-2 EN 61000-6-3 IEC 61131-9
Shock resistance		DIN EN 60068-2-27
Vibration resistance		DIN EN 60068-2-64 DIN EN 60068-2-6
Mechanical Data		
Weight oz (g)	14.41 (408.4)	13.97 (396.1)
Dimensions in (mm)		1.02 x 2.33 x 8.19 (26 x 59.3 x 208)
Materials	housing: PA grey; socket: stainless steel (1.4404/316L)	
Displays/Operating Elements		
Display		
operation		1 x LED, green
fault		1 x LED, red
function		1 x LED, yellow

Model	IO-Link I/O Module - with Auxillary Power NC-HA-8A5F-12AAA	IO-Link I/O Module - Standard NC-HB-8A5F-12A0A
Accessories		
Accessories (optional)		protective cap for M12 sockets
Pack quantity		1 pcs
Electrical connection - AUX		
X31		
1	+ 24 V DC (UAI)	
2	GND (UA/UAi)	
3	not used	
4	+ 24 V DC (UA)	
Connector: 1 x M12		
Electrical connection - IO-Link		
X1		
1		+ 24 V DC (US)
2		not used
3		GND (US)
4		IO-Link
Connector: 1 x M12		
Electrical connection - inputs/outputs		
X1.0...X1.7		
1	+ 24 V DC (UA/UAi)	+ 24 V DC (US)
2		I/O2
3	GND (UA/UAi)	GND (US)
4		I/O1
5		not used
Connector: 8 x M12		

Accessories



Y-Splitters Technical Data

Model	Y-Splitter 2 x M8 - 1 x M12 NC-TS-083F-124M0	Y-Splitter 2 x M12 - 1 x M12 NC-TS-124F-125M0
Application		
Special feature	Free from silicone; Gold-plated contacts	
Free from silicone	yes	
Electrical data		
Operating voltage (V)	< 50 AC / < 60 DC	< 250 AC / < 300 DC; (cULus: 30 AC/42 DC)
Protection class	III	
Max. current load per module/slot (A)	3	4
Max. current load total (A)	3	4
Operating conditions		
Ambient temperature °F (°C)	-13...194 (-25 ... +90)	
Protection	IP 65; IP 67; IP 68; IP 69K	
Mechanical data		
Weight oz (g)	1.06 (30.2)	1.27 (35.9)
Materials	housing: PA orange; Sealing: FKM	
Material nut	brass, nickel-plated/brass, nickel-plated	
Remarks		
Pack quantity	1 pcs.	
Electrical connection		
Electrical Connection - Plug	Connector: 1 x M12; Locking: brass, nickel-plated; Contacts: gold-plated; Tightening torque: 5.3 ... 13.3 in-lb (0.6...1.5 Nm)	
		
Connection		
Electrical Connection - Socket	Connector: 2 x M8; Locking: brass, nickel-plated; Contacts: gold-plated; Tightening torque: 2.7 ... 4.4 in-lb (0.3...0.5 Nm)	Connector: 2 x M12; Locking: brass, nickel-plated; Contacts: gold-plated; Tightening torque: 5.3 ... 13.3 in-lb (0.6...1.5 Nm)
		

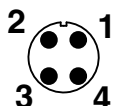
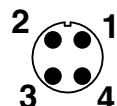
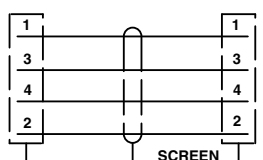
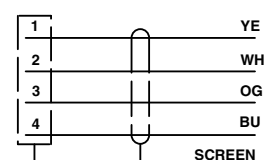
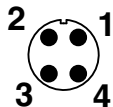


Protective Caps Technical Data

Model	Protective Cap M8 NC-PC-0800-00000	Protective Cap M12 NC-PC-1200-00000
Mechanical Data		
Weight oz (g)	0.14 (4)	0.39 (11)
Dimensions (mm)	M8	M12
Thread designation	M8	M12
Material	PA black	
Tightening torque in-lb (Nm)	4.4 (0.5)	7.1 (0.8)
Remarks		
Pack quantity	10 pcs	



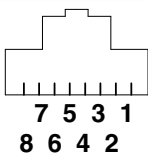
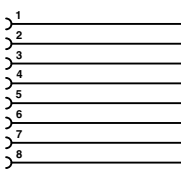
Industrial Ethernet - Cable and Connectors

Industrial Ethernet cable 4 Pin D-coded M12 - M12				Industrial Ethernet cable 4 Pin D-coded M12 - Open End													
Model	NC-124MS-1244SGA	NC-124MS-1244SG2	NC-124MS-1244SG5	NC-124MS-00000G2	NC-124MS-00000G5												
Application																	
System	Gold-plated contacts; screened cable			Gold-plated contacts													
Design	Ethernet cable, D-coded			Ethernet cable, D-coded													
Electrical Data																	
Operating Voltage (V)	< 50 AC / < 60 DC			< 250 AC/DC													
Protection Class	III																
Max. current load total (A)	4			4													
Operating Conditions																	
Ambient temperature °F (°C)	-4...+194 (-20 ... +90)			-40... +158 (-40 ... +70)													
Protection	IP67			IP67													
Mechanical Data																	
Weight oz (g)	2.33 (66.1)	5.77 (163.5)	13.02 (369.2)	5.34 (151.5)	12.32 (349.2)												
Dimensions in (mm)	0.59 x 0.59 x 1.86 (15 x 15 x 47.3)			0.59 x 0.59 x 1.86 (15 x 15 x 47.3)													
Length ft (M)	1.64 (0.5)	6.56 (2)	16.40 (5)	6.56 (2)	16.40 (5)												
Material	TPU (urethane)			TPU (urethane)													
Material (nut)	diecast zinc, nickel-plated/diecast zinc, nickel-plated			Diecast Zinc, Nickel-Plated													
Electrical Connection																	
	Cable: PVC, green, screened; 4 x 0.34 mm²			Cable: PVC, green, Ø 6.5 mm; 4 x 0.34 mm²													
Electrical Connection - Plug	Connector: 1 x M12, straight; Molded body: TPU (urethane); Locking: diecast zinc, nickel-plated; Contacts: gold-plated; Shielded connection cable: shield connected			Connector: 1 x M12, straight; Molded body: TPU (urethane); Locking: diecast zinc, nickel-plated; Contacts: gold-plated; Shielded connection cable: shield connected													
																	
				Core Colours: YE = yellow WH = white OG = orange BU = blue 													
Electrical Connection - Plug	Connector: 1 x M12, straight; Molded body: TPU (urethane); Locking: diecast zinc, nickel-plated; Contacts: gold-plated; Shielded connection cable: shield connected			Colour code <table><tr><td>Pin M12</td><td>Pin RJ45</td></tr><tr><td>Connector</td><td>Connector</td></tr><tr><td>YE</td><td>1</td></tr><tr><td>WH</td><td>3</td></tr><tr><td>OG</td><td>2</td></tr><tr><td>BU</td><td>6</td></tr></table>		Pin M12	Pin RJ45	Connector	Connector	YE	1	WH	3	OG	2	BU	6
Pin M12	Pin RJ45																
Connector	Connector																
YE	1																
WH	3																
OG	2																
BU	6																
																	

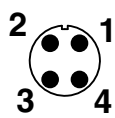
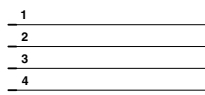


Industrial Ethernet Connectors Technical Data

RJ45 Wireable Bus connector

Model	NC-RJ450-0000000
Operating Conditions	
Ambient temperature °F (°C)	14...140 (-10 ... +60)
Protection	IP20
Mechanical Data	
Weight oz (g)	0.37 (10.4)
Electrical Connection	
Electrical Connection	screw terminals: 0.34 mm ² ; Cable sheath: Ø 4.5...8 mm; AWG 22 Electrical connection
Electrical Connection - Socket	Connector: 1 x RJ45, straight
	
Connection	

4 Pin D-coded Wireable Connector

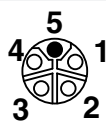
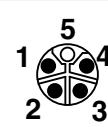
Model	NC-124MS-WIREODO
Application	
Special feature	Free from silicone; Gold plated contacts
Design	Ethernet cable, D-coded
Free from silicone	yes
Electrical data	
Operating voltage (V)	< 45 AC / < 70 DC
Max. current load total (A)	4; ...104°F (...40 °C)
Operating Conditions	
Ambient temperature °F (°C)	-13...+185 (-25 ... +85)
Protection	IP67
Mechanical Data	
Weight oz (g)	1.57 (44.6)
Dimensions in (mm)	0.80 x 0.80 x 2.48 (20.2 x 20.2 x 63)
Materials	diecast zinc nickel-plated
Molded-body material	
Material nut	
Remarks	
Pack quantity	1 pcs
Electrical Connection	
Electrical Connection	screw terminals: ...0.75 mm ² ; Cable sheath: Ø 6...8 mm; AWG 18
Electrical Connection - plug	Connector: 1 x M12, straight; Molded body: diecast zinc, nickel-plated; Locking: diecast zinc, nickel-plated; Contacts: gold-plated; Shielded connection cable: shieldable
	
Connection	



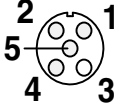
Power Cable and Wireable Connectors Technical Data

5 Pin L - coded M12 - M12		5 Pin L - coded M12 - Open End		
Model	NC-125FS-125MSL2	NC-125FS-125MSL5	NC-125FS-00000L2	NC-125FS-00000L5
Application				
System	Gold-plated contacts			
Design	Power cable, L-coded			
Electrical Data				
Operating Voltage (V)	64 DC		63 DC	
Max. current load total (A)	16		16	
Operating Conditions				
Ambient temperature °F (°C)	-40... 194 (-40 ... +90)			
Protection	IP67			
Mechanical Data				
Weight oz. (g)	16.58 (470.1)	39.50 (1119.7)	5.34 (151.5)	12.32 (349.2)
Length ft. (M)	6.56 (2)	16.40 (5)	6.56 (2)	16.40 (5)
Material	PP		PP, TPE	
Material (nut)	brass, nickel-plated/brass, nickel-plated		diecast zinc, nickel-plated	
Electrical Connection				
	Cable: PUR, black, Ø 11.3 mm; 5 x 2.5 mm²			
Electrical Connection 1 - Plug/Socket	Connector: 1x M12, straight; Molded body: TPE; Locking: brass, nickel-plated; Contacts: gold-plated			
Connection				
Electrical Connection 2			Core Colours: BN = brown WH = white BU = blue BK = black GY = grey	
Electrical Connection - Socket	Connector: 1x M12, straight; Molded body: TPE; Locking: brass, nickel-plated; Contacts: gold-plated			



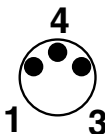
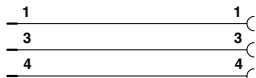
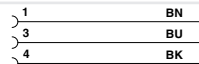
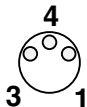
Power Plug Socket 5 Pin L - coded M12 - Wireable																	
Model	NC-125FS-WIREOLO	NC-125FM-WIREOLO															
Application																	
System	Gold-plated contacts																
Design	L-coded																
Electrical Data																	
Operating Voltage (V)	< 63 DC																
Operating Conditions																	
Ambient temperature °F (°C)	-40...+185 (-40 ... +85)																
Protection	IP67																
Mechanical Data																	
Weight oz (g)	1.88 (53.2)	1.91 (54.2)															
Dimensions in (mm)	DIA = .98 (25) L = 2.76 (70)	DIA = .98 (25) L = 2.99 (76)															
Material	PA																
Material (nut)	diecast zinc , nickel-plated																
Length in (mm)	2.99 (76)																
Electrical Connection																	
Electrical Connection	screw terminals: 1.5...2.5 mm²; Cable sheath: Ø 8...13 mm	screw terminals: 1.5...2.5 mm²; Cable sheath: Ø 8...13 mm															
Electrical Connection	Socket Connector: 1 x M12, straight; Molded body: PA; Locking: diecast zinc , nickel-plated; Contacts: gold-plated	Connector: 1 x M12, straight; Molded body: PA; Locking: diecast zinc , nickel-plated; Contacts: gold-plated															
Wireable connector/plug																	
Connection	Core Colours: BN = brown WH = white BU = blue BK = black GY = grey <table><tr><td>1</td><td>BN</td><td>1</td></tr><tr><td>2</td><td>WH</td><td>2</td></tr><tr><td>3</td><td>BU</td><td>3</td></tr><tr><td>4</td><td>BK</td><td>4</td></tr><tr><td>5</td><td>GY</td><td>5</td></tr></table>		1	BN	1	2	WH	2	3	BU	3	4	BK	4	5	GY	5
1	BN	1															
2	WH	2															
3	BU	3															
4	BK	4															
5	GY	5															



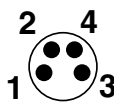
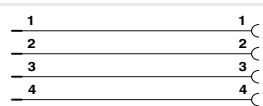
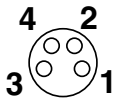
Power cable for I/O Module with Auxiliary Power 5 Pin A-coded M12 - Open End NC-125FS-00000-5	
Model	
Application	
System	Gold-plated contacts
Design	Power cable, L-coded
Electrical Data	
Operating Voltage (V)	< 60 AC/DC
Max. current load total (A)	4; (cULus: 3)
Operating Conditions	
Ambient temperature °F (°C)	-13...+194 (-25 ... +90)
Protection	IP67
Mechanical Data	
Weight oz. (g)	6.82 (193.4)
Length ft. (M)	16.40 (5)
Material	housing: TPU orange; Sealing: FKM
Material (nut)	brass, nickel-plated/brass, nickel-plated
Electrical Connection	
Cable	Cable: 5 m, PUR, Halogen-free, black, Ø 4.6 mm; 5 x 0.34 mm² (42 x Ø 0.1 mm)
Electrical Connection - Socket	Connector: 1 x M12, straight; Locking: brass, nickel-plated; Contacts: gold-plated; Tightening torque: 5.3 ... 13.3 in-lb (0.6. 1.5 Nm)
	
Connection	Core colours : BN = brown > 1 BN WH = white > 2 WH BU = blue > 3 BU BK = black > 4 BK GY = grey > 5 GY



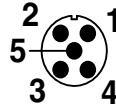
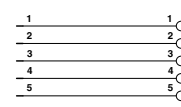
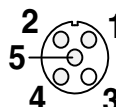
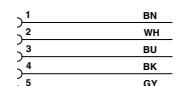
Connector Cables and Plugs Technical Data

Cable 3 Pin A-coded M8 - M8					Cable 3 Pin A-coded M8 - Open End
Model	NC-083FS-083MS-A	NC-083FS-083MS-1	NC-083FS-083MS-2	NC-083FS-083MS-5	NC-083FS-00000-3
Application					
System	Free from silicone; Halogen-free; gold-plated contacts; Drag chain suitability				
Free from silicon	Yes				
Electrical Data					
Operating Voltage (V)	< 50 AC / < 60 DC				
Protection Class	III				
Max. current load total (A)	3				
Operating Conditions					
Ambient temperature F° (C°)	-13...+194 (-25 ... +90)				
Note on ambient temperature	cULus: ...176 (80)				
Ambient temperature (moving) F° (C°)	-13...+194 (-25 ... +90)				
Note on ambient temperature (moving) F° (C°)	cULus: ...176 (80)				
Protection	IP 65; IP 67; IP 68; IP 69K				
Mechanical Data					
Weight oz. (g)	1.13 (31.9)	1.44 (40.7)	2.03 (57.6)	3.98 (112.8)	3.69 (104.6)
Length ft. (M)	1.97 (0.6)	3.28 (1)	6.56 (2)	16.40 (5)	9.84 (3)
Material	housing: TPU (urethane) Orange; sealing: FKM				
Material (nut)	brass, nickel-plated/brass, nickel-plated				brass, nickel-plated
Drag chain suitability	Yes				
Bending radius for flexible applications	min. 10 x cable diameter				
Travel speed	max. 3.3 m/s for a horizontal travel length of 5m & max. acceleration of 5 m/s^2				
Bending cycles	> 5 Mio.				
Torsional strain	+/- 180 deg/m				
Electrical Connection					
Electrical Connection - Plug	Connector: 1x M8, straight; Locking: brass, nickel-plated; Contacts: gold-plated; Tightening torque: 2.7 ... 4.4 in-lb (0.3...0.5 Nm)				
					
Electrical Connection - Cable	Cable: PUR, Halogen-free, black, Ø 3.7 mm; 3 x 0.25 mm² (32 x Ø 0.1 mm)				
					
Electrical Connection - Socket	Connector: 1x M8, straight; Molded body: TPU, orange; Locking: brass, nickel-plated; Sealing: FKM; Contacts: gold-plated;				
Connection					Core colours : BN = brown BU = blue BK = black



Cable 4 Pin A-coded M8 - M12					Cable 4 Pin A-coded M8 - Open End								
Model	NC-084FS-124MS-A	NC-084FS-124MS-1	NC-084FS-124MS-2	NC-084FS-124MS-5	NC-084FS-00000-3								
Application													
System	Free from silicone; Halogen-free; gold-plated contacts; Drag chain suitability												
Free from silicon	Yes												
Electrical Data													
Operating Voltage (V)	< 50 AC/< 60 DC												
Protection Class	III												
Max. current load total (A)	3												
Operating Conditions													
Ambient temperature °F (°C)	-13...+194 (-25 ... +90)												
Note on ambient temperature	cULus: ...167 (75)				cULus: ...176 (80)								
Ambient temperature (moving)	-13...+194 (-25 ... +90)												
Note on ambient temperature (moving)	cULus: ...167 (75)				cULus: ...176 (80)								
Protection	IP 65; IP 67; IP 68; IP 69K												
Mechanical Data													
Weight oz. (g)	1.62 (46)	2.06 (58.5)	3.17 (89.9)	5.52 (156.4)	4.14 (117.3)								
Length ft. (M)	1.97 (0.6)	3.28 (1)	6.56 (2)	16.40 (5)	9.84 (3)								
Material	Housing: TPU (urethane) orange; Sealing: FKM												
Material (nut)	brass, nickel-plated/brass, nickel-plated				brass, nickel-plated								
Drag chain suitability	Yes												
Bending radius for flexible applications	min. 10 x cable diameter												
Travel speed	max. 3.3 m/s for a horizontal travel length of 5m & max. acceleration of 5 m/s^2												
Bending cycles	> 5 Mio.												
Torsional strain	+/- 180 deg/m												
Electrical Connection													
Electrical Connection - Plug	Connector: 1 x M12, straight; Locking: brass, nickel-plated; Contacts: gold-plated; Tightening torque: 5.3 ... 13.3 in-lb (0.6...1.5 Nm) Connection cable: shield connected												
													
Electrical Connection - Cable	Cable: PUR, Halogen-free, black, Ø 4.3 mm; 4 x 0.34 mm² (42 x Ø 0.1 mm)				Cable: 5 m, PUR, Halogen-free, black, Ø 3.7 mm; 4 x 0.25 mm² (32 x Ø 0.1 mm)								
Connection													
Electrical Connection - Socket	Connector: 1 x M8, straight; Locking: brass, nickel-plated; Contacts: gold-plated; Tightening torque: 2.7 ... 4.4 in-lb (0.3...0.5 Nm)												
Connection					<table><tr><td>1</td><td>BN</td></tr><tr><td>2</td><td>WH</td></tr><tr><td>3</td><td>BU</td></tr><tr><td>4</td><td>BK</td></tr></table> BN = brown WH = white BU = blue BK = black	1	BN	2	WH	3	BU	4	BK
1	BN												
2	WH												
3	BU												
4	BK												

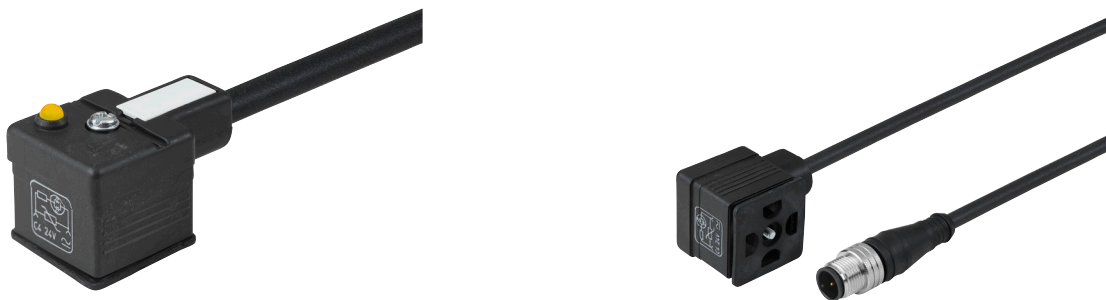


Cable 5 Pin A-coded M12 -M12					Cable 5 Pin A-coded M12 - Open End
Model	NC-125FS-125MS-A	NC-125FS-125MS-1	NC-125FS-125MS-2	NC-125FS-125MS-5	NC-125FS-00000-5
Application					
System	Free from silicone; gold-plated contacts; Drag chain suitability				
Free from silicon	Yes				
Electrical Data					
Operating Voltage (V)	< 60 AC/DC				
Protection Class	II				
Max. current load total (A)	4; (cULus: 3)				
Operating Conditions					
Ambient temperature (C)	-13...+194 (-25 ... +90)				
Note on ambient temperature	cULus: ...167 (75)				
Ambient temperature (moving) (C)	-13...+194 (-25 ... +90)				
Note on ambient temperature (moving)	cULus: ...167 (75)				
Storage temperature (C)	-13...+131 (-25 ... +55)				
Storage humidity (%)	10 ... 100				
Other climatic conditions for storage according to stated class	1K22/ DIN 60721-3-1				
Protection	IP 65; IP 67; IP 68; IP 69K				
Mechanical Data					
Weight oz. (g)	1.97 (56.1)	2.38 (67.5)	3.65 (103.5)	7.27 (206.2)	6.82 (193. 4)
Length ft. (M)	1.97 (0.6)	3.28 (1)	6.56 (2)	16.40 (5)	16.40 (5)
Material	housing: TPU (urethane) orange; sealing: FKM				
Material (nut)	brass, nickel-plated/brass, nickel-plated				
Drag chain suitability	Yes				
Bending radius for flexible applications	min. 10 x cable diameter				
Travel speed	max. 3.3 m/s for a horizontal travel length of 5m & max. acceleration of 5 m/s^2				
Bending cycles	> 5 Mio.				
Torsional strain	+/- 180 deg/m				
Electrical Connection - Plug	Connector: 1 x M12, straight; Locking: brass, nickel-plated; Contacts: gold-plated; Tightening torque: 5.3 ... 13.3 in-lb (0.6...1.5 Nm)				
					
Electrical Connection	Cable: PUR, black, Ø 4.6 mm; 5 x 0.34 mm² (42 x Ø 0.1 mm)				
					
Electrical Connection - Socket	Connector: 1 x M12, straight; Locking: brass, nickel-plated; Contacts: gold-plated; Tightening torque: 5.3 ... 13.3 in-lb (0.6...1.5 Nm)				
					 BN = brown WH = white BU = blue BK = black GY = grey



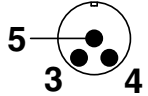
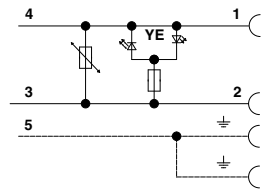
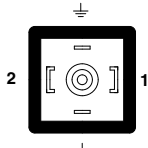
Connector Cables Technical Data

Model	NC-083MS-WIRE0AO		NC-084MS-WIRE0AO		NC-124MS-WIRE0AO		NC-125MS-WIRE0AO																																																			
Application																																																										
System	gold-plated contacts				Free from silicone; gold-plated contacts																																																					
Free from Silicon					Yes																																																					
Electrical Data																																																										
Operating Voltage (V)	< 60 DC				< 250 AC / < 300 DC																																																					
Protection Class					II																																																					
Max. current load total (A)					4; (...40 °C)																																																					
Operating Conditions																																																										
Ambient temperature °F (°C)	-13...+185 (-25 ... +85)				-13...+194 (-25 ... +90)																																																					
Storage temperature °F (°C)					-13...+131 (-25 ... +55)																																																					
Storage humidity (%)					10 ... 100																																																					
Other climatic conditions for storage according to stated class					1K22/ DIN 60721-3-1																																																					
Protection	IP67				IP 65; IP 67; IP 68; IP 69K																																																					
Mechanical Data																																																										
Weight oz. (g)	0.38 (10.9)		0.41 (11.5)		1.14 (32.4)		1.08 (30.5)																																																			
Dimensions in (mm)	0.47 x 0.47 x 1.97 (12 x 12 x 50)																																																									
Material	PA				Molded body: PA 6.6 orange; sealing: FKM green																																																					
Material (nut)	brass, nickel-plated				nickel-plated brass																																																					
Mechanical Data																																																										
Electrical Connection	screw terminals: 0.14...0.5 mm²; Cable sheath: Ø 3.5...5 mm				screw terminals: 0.25...1 mm²; Cable sheath: Ø 3.5...6 mm; AWG 23...17																																																					
Electrical Connection - Plug	Connector: 1 x M8, straight; Molded body: PA; Locking: brass, nickel-plated; Contacts: gold-plated				Connector: 1 x M12, straight; Molded body: PA 6.6, orange; Locking: nickel-plated brass; sealing: FKM; Contacts: gold-plated; Tightening torque: 5.3 ... 10.6 in-lb (0.6...1.2 Nm); Take into account the maximum value of the counterpart!																																																					
Wireable connector/plug																																																										
Connection	<table><tr><td>1</td><td></td></tr><tr><td>3</td><td></td></tr><tr><td>4</td><td></td></tr></table>		1		3		4		<table><tr><td>1</td><td></td></tr><tr><td>2</td><td></td></tr><tr><td>3</td><td></td></tr><tr><td>4</td><td></td></tr></table>		1		2		3		4		<table><tr><td>1</td><td>BN</td><td>1</td><td>○</td></tr><tr><td>2</td><td>WH</td><td>2</td><td>○</td></tr><tr><td>3</td><td>BU</td><td>3</td><td>○</td></tr><tr><td>4</td><td>BK</td><td>4</td><td>○</td></tr></table>		1	BN	1	○	2	WH	2	○	3	BU	3	○	4	BK	4	○	<table><tr><td>1</td><td>BN</td><td>1</td><td>○</td></tr><tr><td>2</td><td>WH</td><td>2</td><td>○</td></tr><tr><td>3</td><td>BU</td><td>3</td><td>○</td></tr><tr><td>4</td><td>BK</td><td>4</td><td>○</td></tr><tr><td>5</td><td>GY</td><td>5</td><td>○</td></tr></table> Core colors BN = brown WH = white BU = blue BK = black GY = grey		1	BN	1	○	2	WH	2	○	3	BU	3	○	4	BK	4	○	5	GY	5	○
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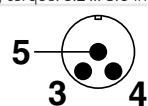
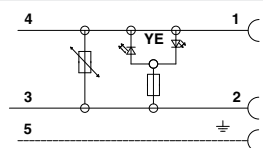
Valve Connectors Technical Data

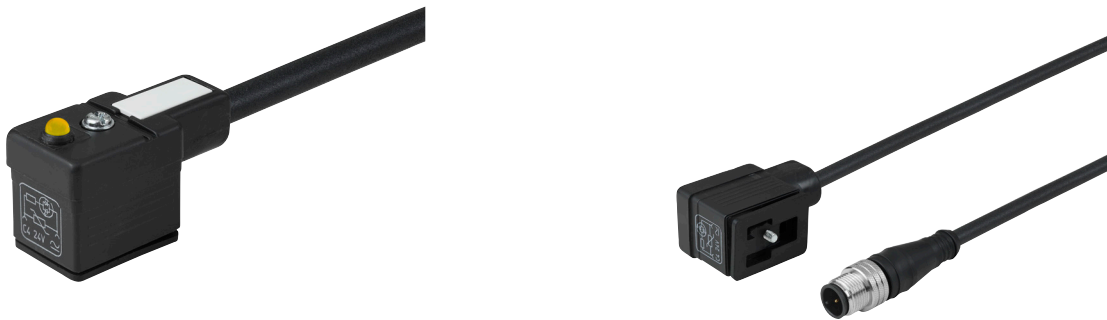
DIN Form A conforming to DIN EN 175 301-803-A ISO 4400 (DIN 43650)

Model	DIN form A Solenoid Connector with LED - 3 Pin A-coded M12				Open End	
	NC-DINAA-123MS-A	NC-DINAA-123MS-1	NC-DINAA-123MS-2	NC-DINAA-123MS-5	M/P43316/11	M/P43316/13
Application						
System	Free from silicone; Halogen-free; gold-plated contacts					
Free from silicon	Yes					
Electrical Data						
Operating Voltage (V)	< 24 AC/DC				24 AC/DC	
Overvoltage Protection	yes; (VDR)				yes; (VDR)	
Max. current load total (A)	3					
Operating Conditions						
Ambient temperature °F (°C)	-13...+176 (-25 ... +80)					
Protection	IP67				IP65	
Mechanical Data						
Weight oz (g)	2.71 (76.7)	3.32 (94.2)	4.87 (138)	9.59 (271.8)	3.49 (99)	7.76 (220)
Length ft (M)	1.97 (0.6)	3.28 (1)	6.56 (2)	16.40 (5)	3.28 (1)	9.84 (3)
Material	PUR					
Material (nut)	brass, nickel-plated/brass, nickel-plated					
Displays/Operating Elements						
Display	Switching status 1 x LED, yellow				1 x LED, red	
Accessories						
Accessories (supplied)	Screw				Screw	
	panel for labelling					
Electrical Connection						
Electrical Connection - Plug	Connector: 1 x M12, straight; Molded body: PUR; Locking: brass, nickel-plated; Contacts: gold-plated; Tightening torque: 6.2 ... 8.0 in-lb (0.7...0.9 Nm)					
						
Electrical Connection - Cable	Cable: PUR, Halogen-free, black, Ø 5 mm; 3 x 0.5 mm² (42 x Ø 0.1 mm)				3 x 0.5 mm²	
						
Electrical Connection - Socket	Connector: 1 x valve type A DIN, angled; Molded body: PUR; Locking: brass, nickel-plated; Contacts: nickel-plated brass; Tightening torque: 6.2 ... 8.0 in-lb (0.7...0.9 Nm)					
						

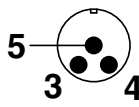
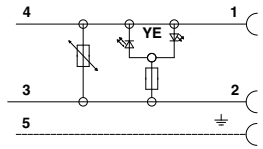


Valve Connectors - DIN form B conforming to DIN EN 175 301-803-B ISO 6952 (DIN 43650)

Model	DIN form B Solenoid Connector with LED - 3 Pin A-coded M12				Open End	
	NC-DINBA-123MS-A	NC-DINBA-123MS-1	NC-DINBA-123MS-2	NC-DINBA-123MS-5	NC-DINBA-00000-1	NC-DINBA-00000-3
Application						
System	Free from silicone; Halogen-free; gold-plated contacts					
Free from silicon	Yes					
Electrical Data						
Operating Voltage (V)	< 24 AC/DC					
Overvoltage Protection	yes; (VDR)					
Max. current load total (A)	3					
Operating Conditions						
Ambient temperature °F (°C)	-13...+176 (-25 ... +80)					
Protection	IP67					
Mechanical Data						
Weight oz. (g)	2.60 (73.7)	3.28 (93)	4.74 (134.3)	9.44 (267.7)	2.97 (84.2)	8.82 (250)
Length ft. (M)	1.97 (0.6)	3.28 (1)	6.56 (2)	16.40 (5)	3.28 (1)	9.84 (3)
Material	PUR					
Material (nut)	brass, nickel-plated/brass, nickel-plated					
Displays/Operating Elements						
Display	Power 1 x LED, yellow					
Accessories						
Accessories (supplied)	Screw panel for labelling					
Electrical Connection - Plug						
Electrical Connection - Plug	Connector: 1 x M12, straight; Molded body: PUR; Locking: brass, nickel-plated; Contacts: gold-plated; Tightening torque: 6.2 ... 8.0 in-lb (0.7...0.9 Nm)					
						
Electrical Connection	Cable: PUR, Halogen-free, black, Ø 5 mm; 3 x 0.5 mm² (42 x Ø 0.1 mm)					
						
Electrical Connection - Socket	Connector: 1 x valve type B DIN, angled; Molded body: PUR; Locking: brass, nickel-plated; Contacts: nickel-plated brass; Tightening torque: 6.2 ... 8.0 in-lb (0.7...0.9 Nm)					
						

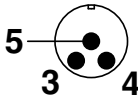
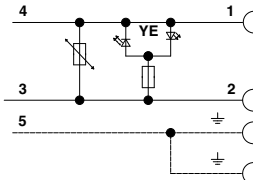
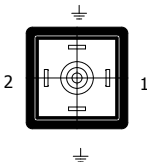


Valve Connectors - DIN Form B Industrial Standard

Model	DIN form B Industrial Standard Solenoid Connector with LED - 3 Pin A-coded M12				Open End	
	NC-DINIA-123MS-A	NC-DINIA-123MS-1	NC-DINIA-123MS-2	NC-DINBA-123MS-5	M/P43314/11	M/P43314/13
Application						
System	Free from silicone; Halogen-free; gold-plated contacts					
Free from silicon	Yes					
Electrical Data						
Operating Voltage (V)	< 24 AC/DC				24 AC/DC	
Overvoltage Protection	yes; (VDR)				yes; (VDR)	
Max. current load total (A)	3					
Operating Conditions						
Ambient temperature °F (°C)	-13...+176 (-25 ... +80)					
Protection	IP67				IP65	
Mechanical Data						
Weight oz. (g)	2.71 (76.7)	3.35 (95.1)	4.77 (135.3)	9.43 (267.3)	2.82 (80)	8.11 (230)
Length ft. (M)	1.97 (0.6)	3.28 (1)	6.56 (2)	16.40 (5)	3.28 (1)	9.84 (3)
Material	PUR					
Material (nut)	brass, nickel-plated/brass, nickel-plated					
Displays/Operating Elements						
Display	Switching Status 1 x LED, yellow				1 x LED, red	
Accessories						
Accessories (supplied)	Screw panel for labelling				Screw	
Electrical Connection						
Electrical Connection - Plug	Connector: 1 x M12, straight; Molded body: PUR; Locking: brass, nickel-plated; Contacts: gold-plated; Tightening torque: 6.2 ... 8.0 in-lb (0.7...0.9 Nm)					
						
Electrical Connection	Cable: PUR, Halogen-free, black, Ø 5 mm; 3 x 0.5 mm² (42 x Ø 0.1 mm)				3 x 0.5 mm²	
						
Electrical Connection - Socket	Connector: 1 x valve type B industrial standard, angled; Molded body: PUR; Locking: brass, nickel-plated; Contacts: nickel-plated brass; Tightening torque: 6.2 ... 8.0 in-lb (0.7...0.9 Nm)					
						



Valve Connectors - DIN form C conforming to DIN EN 175 301-803-C ISO 15217 (DIN 43650)

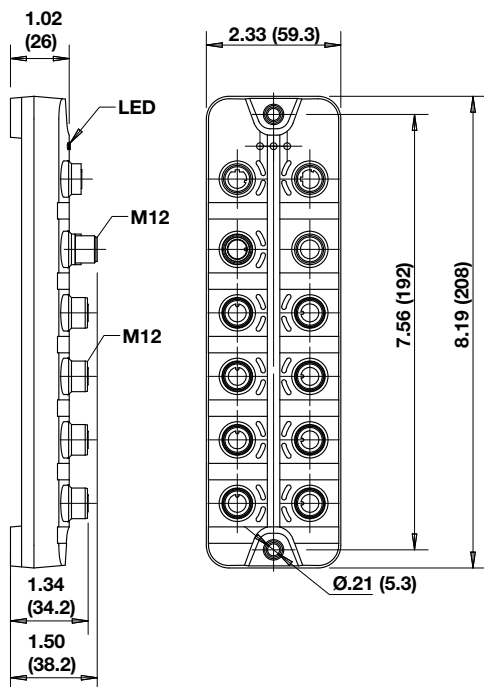
Model	DIN form C Solenoid Connector with LED - 3 Pin A-coded M12				Open End	
	NC-DINCA-123MS-A	NC-DINCA-123MS-1	NC-DINCA-123MS-2	NC-DINCA-123MS-5	V10014-D01	V10014-D03
Application						
System	Free from silicone; Halogen-free; gold-plated contacts					
Free from silicon	Yes					
Electrical Data						
Operating Voltage (V)	< 24 AC/DC				24 AC/DC	
Overvoltage Protection	yes; (VDR)				yes; (VDR)	
Max. current load total (A)	3					
Operating Conditions						
Ambient temperature °F (°C)	-13...+176 (-25 ... +80)					
Protection	IP65				IP65	
Mechanical Data						
Weight oz. (g)	2.08 (59.2)	2.75 (78)	4.40 (124.8)	8.97 (254.5)	2.12 (60)	4.48 (127)
Length ft. (M)	1.97 (0.6)	3.28 (1)	6.56 (2)	16.40 (5)	3.28 (1)	9.84 (3)
Material	PUR					
Material (nut)	brass, nickel-plated/brass, nickel-plated					
Displays/Operating Elements						
Display	Switching Status 1 x LED, yellow				1 x LED, red	
Accessories						
Accessories (supplied)	Screw				Screw	
	panel for labelling					
Electrical Connection						
Electrical Connection - Plug	Connector: 1 x M12, straight; Molded body: PUR; Locking: brass, nickel-plated; Contacts: gold-plated; Tightening torque: 6.2 ... 8.0 in-lb (0.7...0.9 Nm)					
						
Electrical Connection	Cable: PUR, Halogen-free, black, Ø 5 mm; 3 x 0.5 mm² (42 x Ø 0.1 mm)				3 x 0.5 mm²	
						
Electrical Connection - Socket	Connector: 1 x valve type C DIN, angled; Molded body: PUR; Locking: brass, nickel-plated; Contacts: nickel-plated brass; Tightening torque: 6.2 ... 8.0 in-lb (0.7...0.9 Nm)					
						

Dimensions

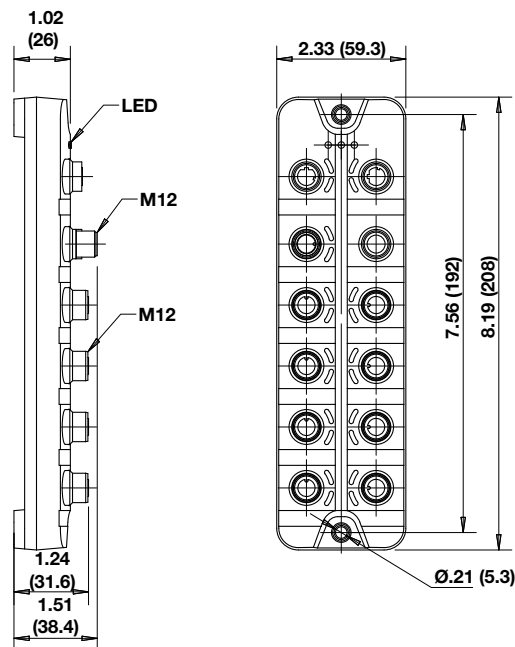
Dimensions in inches (mm)
Projection/First angle



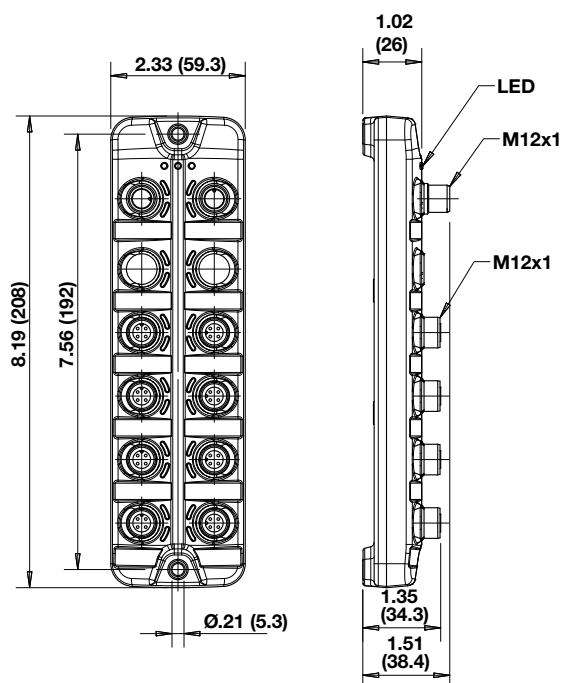
IO-Link Master with PROFINET Interface NC-MP-4A4B-12DLA



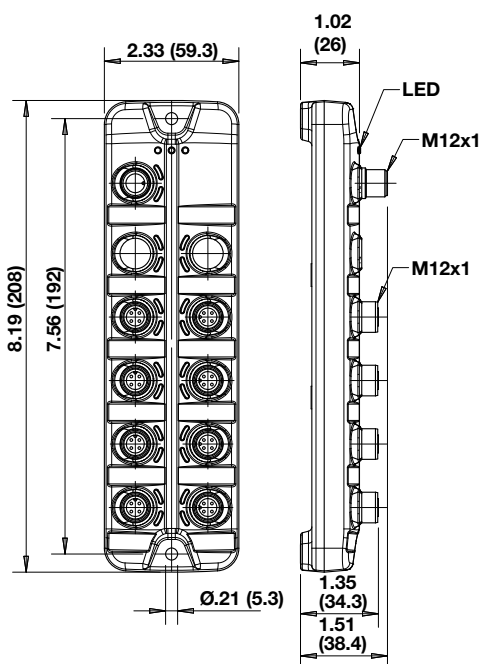
IO-Link Master with EtherNet/IP Interface NC-ME-4A4B-12DLA



IO-Link I/O Module - with Auxillary Power NC-HA-8A5F-12AAA

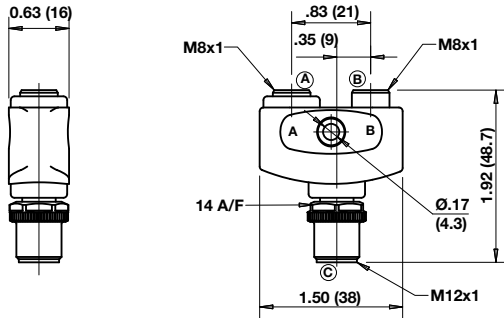


IO-Link I/O Module - Standard NC-HB-8A5F-12A0A

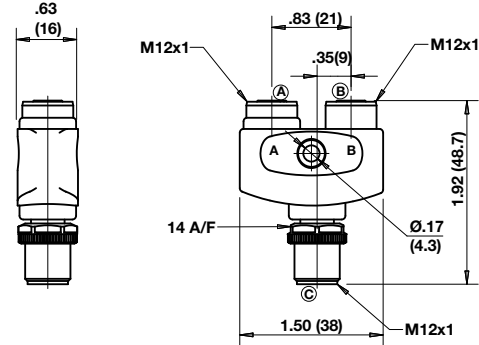


Dimensions Y-Splitters

NC-TS-083F-124M0



NC-TS-124F-125M0

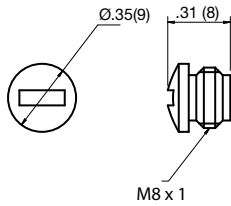


Dimensions in inches (mm)
Projection/First angle

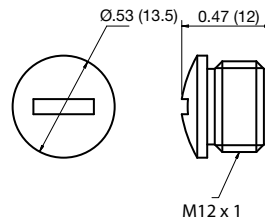


Protective caps

NC-PC-0800-00000



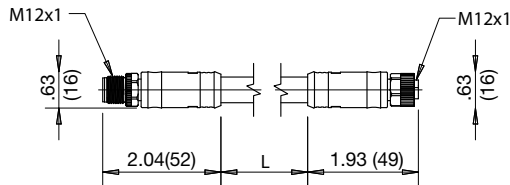
NC-PC-1200-00000



Dimensions

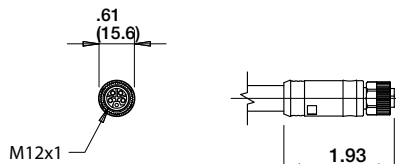
Power Cable 5 Pin L - coded M12 - M12

Dimensions in inches (mm)
Projection/First angle



Product Description	Cable length (ft) M	Model
Power Cable 5 Pin L - coded M12 - M12	6.56 (2) 16.4 (5)	NC-125FS-125MSL2 NC-125FS-125MSL5
Power Cable 5 Pin L - coded M12 - Open End	6.56 (2) 16.4 (5)	NC-125FS-00000L2 NC-125FS-00000L5

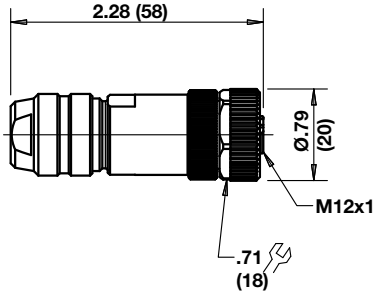
M12 - Open End



Power Socket 5 Pin L - coded

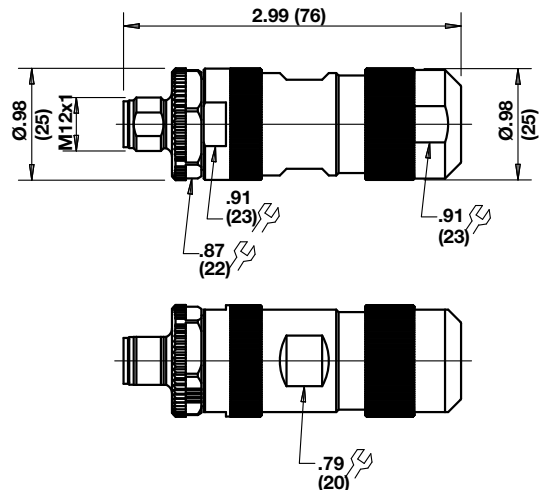
M12 - Wireable

NC-125FS-WIRE0L0



M12 - Wireable

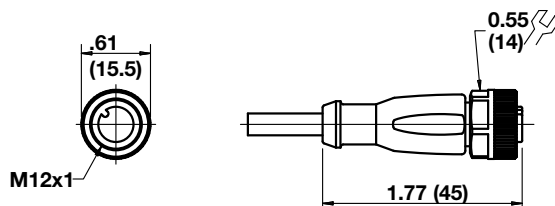
NC-125FM-WIRE0L0



Cable 5 Pin A-coded

M12 - Open End x 5 metre long

NC-125FS-00000-5

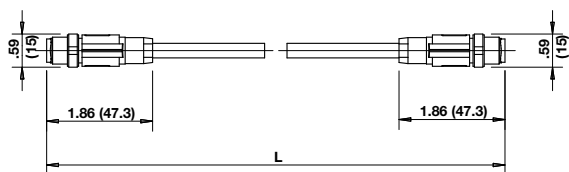


Dimensions

Industrial Ethernet cable 4 Pin D-coded

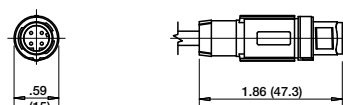
Dimensions in inches (mm)

Projection/First angle

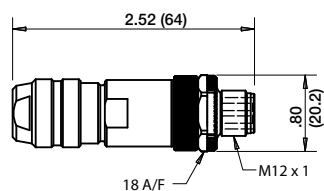


Product Description	Cable length (ft) M	Model
Industrial Ethernet cable 4 Pin D-coded M12 - M12	1.64 (0.5)	NC-124MS-1244SGA
	6.56 (2)	NC-124MS-1244SG2
	16.4 (5)	NC-124MS-1244SG5
Industrial Ethernet cable 4 Pin D-coded M12 - Open End	6.56 (2)	NC-124MS-00000G2
	16.4 (5)	NC-124MS-00000G5

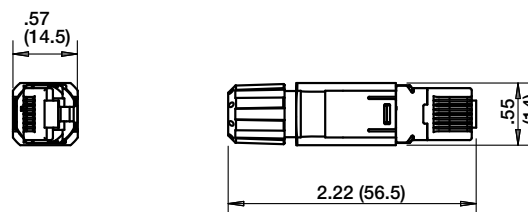
M12 - Open End



Industrial Ethernet M12 4 Pin D-coded NC-124MS-WIRE0D0



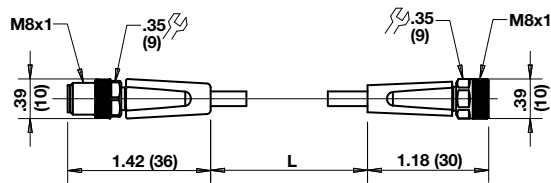
Industrial Ethernet RJ45 RJ45 wireable connector NC-RJ450-0000000



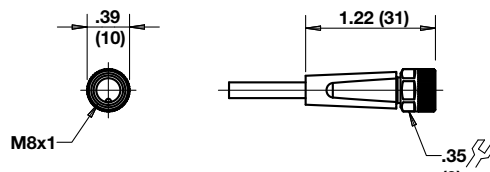
Dimensions

Connector Cables and Plugs

Cable 3 Pin A-coded



M8 - Open End

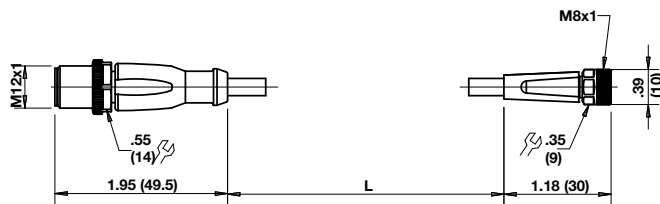


Dimensions in inches (mm)
Projection/First angle

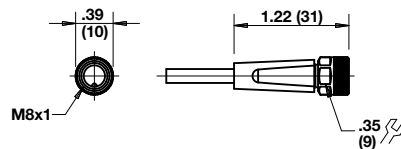


Product Description	Cable length (ft) M	Model
Cable 3 Pin A-coded M8 - M8	1.97 (0.6)	NC-083FS-083MS-A
	3.28 (1)	NC-083FS-083MS-1
	6.56 (2)	NC-083FS-083MS-2
	16.4 (5)	NC-083FS-083MS-5
Cable 3 Pin A-coded M8 - Open End	16.4 (5)	NC-083FS-00000-5

Cable 4 Pin A-coded

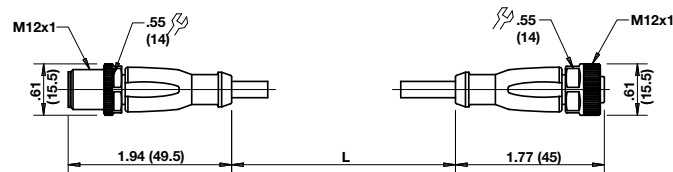


M8 - Open End

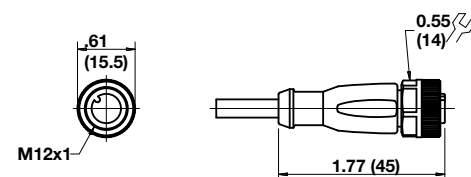


Product Description	Cable length (ft) M	Model
Cable 4 Pin A-coded M8 - M12	1.97 (0.6)	NC-084FS-124MS-A
	3.28 (1)	NC-084FS-124MS-1
	6.56 (2)	NC-084FS-124MS-2
	16.4 (5)	NC-084FS-124MS-5
Cable 4 Pin A-coded M8 - Open End	16.4 (5)	NC-084FS-00000-5

Cable 5 Pin A-coded



M12 - Open End

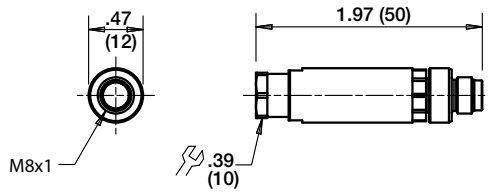


Product Description	Cable length (ft) M	Model
Cable 5 Pin A-coded M12 - M12	1.97 (0.6)	NC-125FS-125MS-A
	3.28 (1)	NC-125FS-125MS-1
	6.56 (2)	NC-125FS-125MS-2
	16.4 (5)	NC-125FS-125MS-5
Cable 5 Pin A-coded M12 - Open End	16.4 (5)	NC-125FS-00000-5

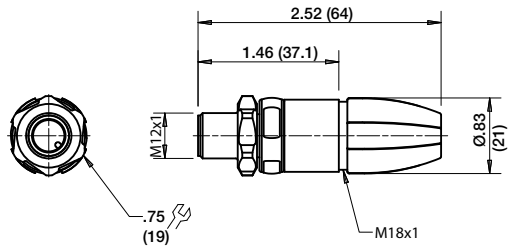
Dimensions

Connector Cables and Plugs

Plug 4 Pin A-coded M8 - Wireable NC-084MS-WIRE0A0



Plug 5 Pin A-coded M12 - Wireable NC-125MS-WIRE0A0



Dimensions in inches (mm)
Projection/First angle



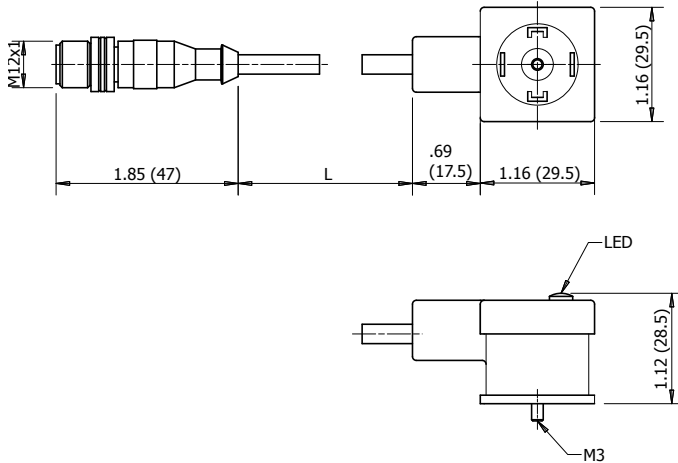
Dimensions

Dimensions in inches (mm)
Projection/First angle



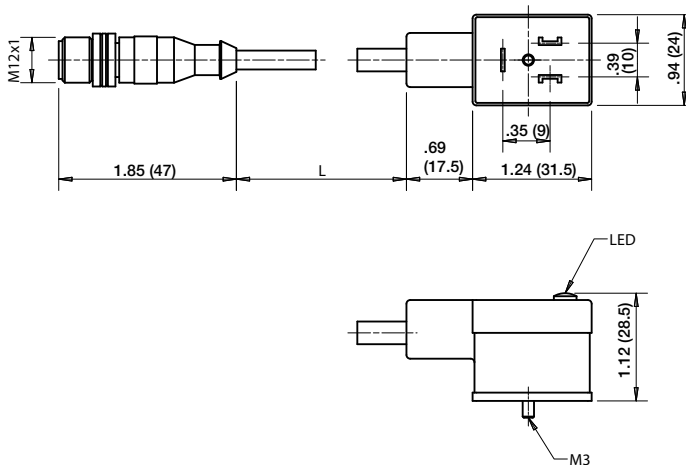
Valve Connectors

DIN form A Solenoid Connector with LED



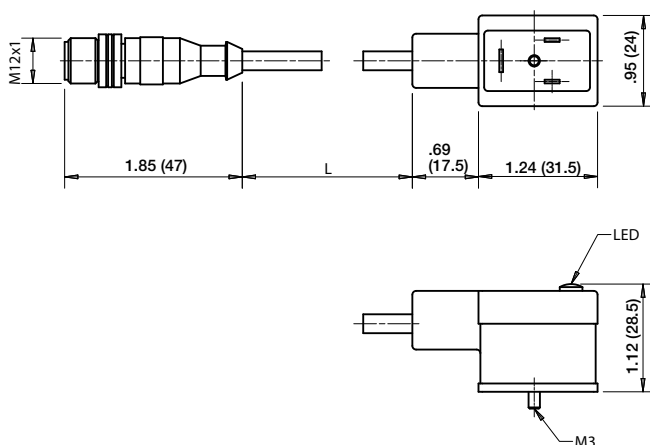
Product Description	Cable length (ft) M	Model
3 Pin A-coded M12	1.97 (0.6)	NC-DINAA-123MS-A
3 Pin A-coded M12	3.28 (1)	NC-DINAA-123MS-1
3 Pin A-coded M12	6.56 (2)	NC-DINAA-123MS-2
3 Pin A-coded M12	16.4 (5)	NC-DINAA-123MS-5
Open End	3.28 (1)	M/P43316/11
Open End	9.84 (3)	M/P43316/13

DIN form B Solenoid Connector with LED



Product Description	Cable length (ft) M	Model
3 Pin A-coded M12	1.97 (0.6)	NC-DINBA-123MS-A
3 Pin A-coded M12	3.28 (1)	NC-DINBA-123MS-1
3 Pin A-coded M12	6.56 (2)	NC-DINBA-123MS-2
3 Pin A-coded M12	16.4 (5)	NC-DINBA-123MS-5
Open End	3.28 (1)	NC-DINBA-00000-1
Open End	9.84 (3)	NC-DINBA-00000-3

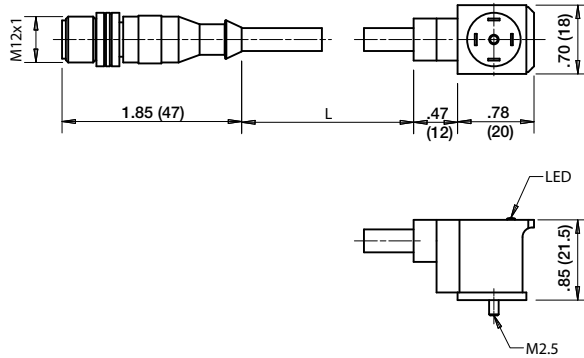
DIN form B Industrial Standard Solenoid Connector with LED



Product Description	Cable length (ft) M	Model
3 Pin A-coded M12	1.97 (0.6)	NC-DINIA-123MS-A
3 Pin A-coded M12	3.28 (1)	NC-DINIA-123MS-1
3 Pin A-coded M12	6.56 (2)	NC-DINIA-123MS-2
3 Pin A-coded M12	16.4 (5)	NC-DINIA-123MS-5
Open End	3.28 (1)	M/P43314/11
Open End	9.84 (3)	M/P43314/13

DIN form C Solenoid Connector with LED

Dimensions in inches (mm)
Projection/First angle



Product Description	Cable length (ft) M	Model
3 Pin A-coded M12	1.97 (0.6)	NC-DINCA-123MS-A
3 Pin A-coded M12	3.28 (1)	NC-DINCA-123MS-1
3 Pin A-coded M12	6.56 (2)	NC-DINCA-123MS-2
3 Pin A-coded M12	16.4 (5)	NC-DINCA-123MS-5
Open End	3.28 (1)	V10014-D01
Open End	9.84 (3)	V10014-D03

Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under **»Technical features/data«**.

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems or other applications not within published specifications, consult IMI Precision Engineering. Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes.

The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.

System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.