

Altech Corp.®



Sensor & Actuator Cables and Connectors

M8 - Field Wired Connectors

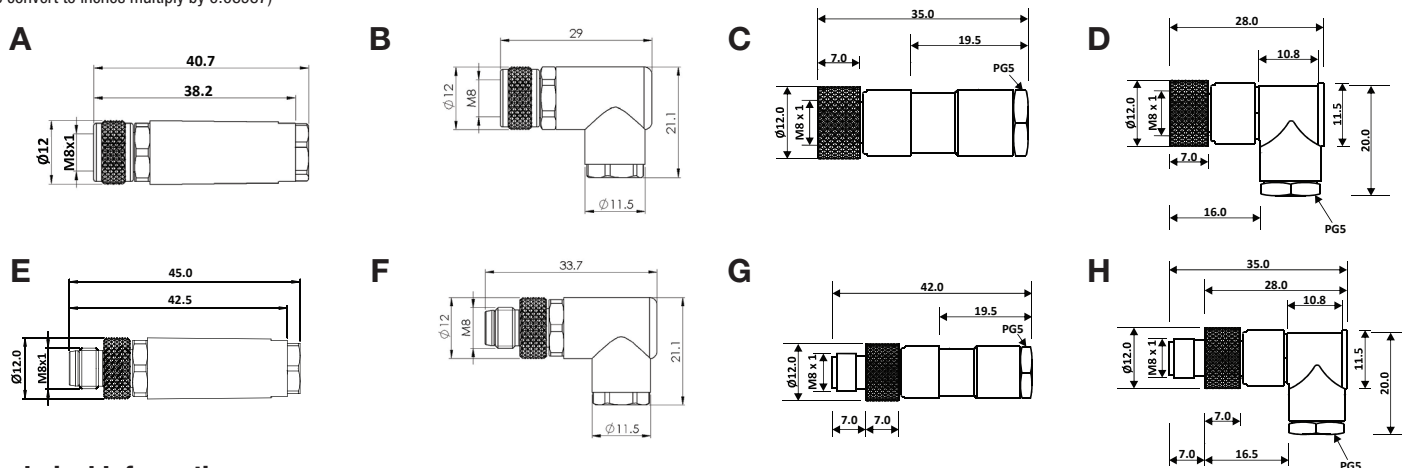
- Female and Male versions
- 3 and 4 pole
- Screw & Solder Connection
- A Coding



Straight & Angled Connectors

No. Poles	Male/Female	Pin Configuration	Cat No.	Terminal Type	Orientation	Drawing No.
3	Female		CNF08-S3SP0-BP5	Screw Terminals	Straight	A
			CNF08-R3SP0-BP5	Screw Terminals	Angled	B
			CNF08-S3LP0-BP5	Solder Terminals	Straight	C
			CNF08-R3LP0-BP5	Solder Terminals	Angled	D
3	Male		CNM08-S3SP0-BP5	Screw Terminals	Straight	E
			CNM08-R3SP0-BP5	Screw Terminals	Angled	F
			CNM08-S3LP0-BP5	Solder Terminals	Straight	G
			CNM08-R3LP0-BP5	Solder Terminals	Angled	H
4	Female		CNF08-S4SP0-BP5	Screw Terminals	Straight	A
			CNF08-R4SP0-BP5	Screw Terminals	Angled	B
			CNF08-S4LP0-BP5	Solder Terminals	Straight	C
			CNF08-R4LP0-BP5	Solder Terminals	Angled	D
4	Male		CNM08-S4SP0-BP5	Screw Terminals	Straight	E
			CNM08-R4SP0-BP5	Screw Terminals	Angled	F
			CNM08-S4LP0-BP5	Solder Terminals	Straight	G
			CNM08-R4LP0-BP5	Solder Terminals	Angled	H

Dimensions (mm)
(to convert to inches multiply by 0.03937)



Technical Information

General Specification

Operating Voltage	30V
Current Rating	3A (Screw), 4A (Solder)
Insulation Resistance	>=100 MΩ
Temperature Range	-25°C...+75°C
Protection Degree	IP67

Material Specification

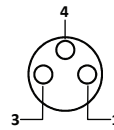
Grip Material	Nylon 66
Contact	CU-Zn
Contact Plating	Gold Plated
Contact Carrier	Nylon 66
O-Ring	Neoprene
Grip Color	Black
Cable Gland	PG5
Coupling Nut	Nickel-Plated Brass

M8 - Molded Female Cable Assemblies

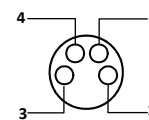
- Female Connector to Flying Lead
- Straight and Angled Connectors
- PVC & PUR Cable
- 3 and 4 pole Connectors
- 1, 2, 5, 10m standard cable length
- Custom cable length available



Straight Connector



Angled Connector



Straight Connectors

Cable Type	Cable Length	Wire Size	3 Pole Cat No.	4 Pole Cat No.
PVC	1m	24AWG	CBF08-S33N0-01BPVC	CBF08-S44N0-01BPVC
	1m	22AWG	CBF08-S33N0-01BP34	CBF08-S44N0-01BP34
	2m	24AWG	CBF08-S33N0-02BPVC	CBF08-S44N0-02BPVC
	2m	22AWG	CBF08-S33N0-02BP34	CBF08-S44N0-02BP34
	5m	24AWG	CBF08-S33N0-05BPVC	CBF08-S44N0-05BPVC
	5m	22AWG	CBF08-S33N0-05BP34	CBF08-S44N0-05BP34
PUR	1m	24AWG	CBF08-S33N0-01BPUR	CBF08-S44N0-01BPUR
	2m	24AWG	CBF08-S33N0-02BPUR	CBF08-S44N0-02BPUR
	5m	24AWG	CBF08-S33N0-05BPUR	CBF08-S44N0-05BPUR

Angled Connectors

Cable Type	Cable Length	Wire Size	3 Pole Cat No.	4 Pole Cat No.
PVC	1m	24AWG	CBF08-R33N0-01BPVC	CBF08-R44N0-01BPVC
	1m	22AWG	CBF08-R33N0-01BP34	CBF08-R44N0-01BP34
	2m	24AWG	CBF08-R33N0-02BPVC	CBF08-R44N0-02BPVC
	2m	22AWG	CBF08-R33N0-02BP34	CBF08-R44N0-02BP34
	5m	24AWG	CBF08-R33N0-05BPVC	CBF08-R44N0-05BPVC
	5m	22AWG	CBF08-R33N0-05BP34	CBF08-R44N0-05BP34
PUR	1m	24AWG	CBF08-R33N0-01BPUR	CBF08-R44N0-01BPUR
	2m	24AWG	CBF08-R33N0-02BPUR	CBF08-R44N0-02BPUR
	5m	24AWG	CBF08-R33N0-05BPUR	CBF08-R44N0-05BPUR

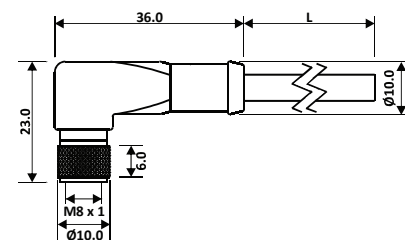
Dimensions (mm) /

(to convert to inches multiply by 0.03937)



Dimensions (mm) /

(to convert to inches multiply by 0.03937)



Technical Information

General Specification

Operating Voltage	60V	30V
Current Rating	4A	4A
Insulation Resistance	$\geq 100 \text{ M}\Omega$	$\geq 100 \text{ M}\Omega$
Temperature Range	$-25^\circ\text{C} \dots +75^\circ\text{C}$	$-25^\circ\text{C} \dots +75^\circ\text{C}$
Protection Degree	IP67	IP67

Material Specification

Grip Material	PU	PU
Contact	CU-Zn	CU-Zn
Contact Plating	Gold Plated	Gold Plated
Contact Carrier	Nylon 66	Nylon 66
O-Ring	Neoprene	Neoprene
Grip Color	Black	Black
Coupling Nut	Nickel-Plated Brass	Nickel-Plated Brass

Cable Specifications

Cable Type	PVC/ PUR	PVC/ PUR
Cable Color	Black*	Black*
Wire Size	22AWG (BP34) 24AWG (BPVC, BPUR)	22AWG (BP34) 24AWG (BPVC, BPUR)
Cable Diameter	4.4mm	4.8mm

*Other colors available, please contact Altech.

M12 - Field Wired Connectors

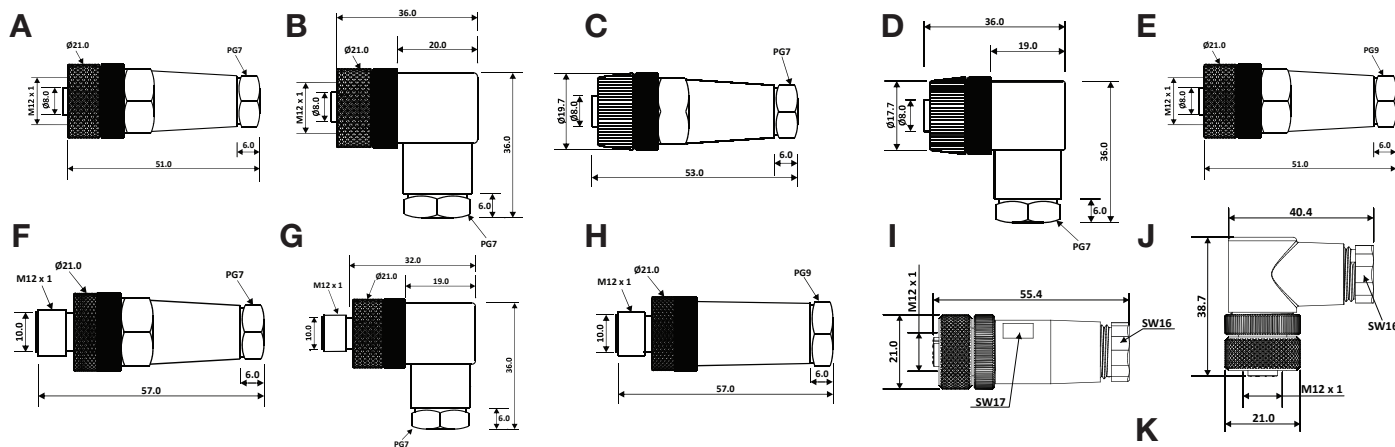
- Female and Male versions
- 4, 5 and 8 pole
- Screw Connection Terminals
- A Coding



Straight & Angled Connectors

No. Poles	Male/Female	Pin Configuration	Cat No.	Terminal Type	Orientation	Cable Gland	Coupling	Drawing No.
4	Female		CNF12-S4SP0-BP7	Screw Terminals	Straight	PG7	Brass-nickel	A
			CNF12-R4SP0-BP7	Screw Terminals	Angled	PG7	Brass-nickel	B
			CNF12-S4SP0-PP7	Screw Terminals	Straight	PG7	Nylon 66	C
			CNF12-R4SP0-PP7	Screw Terminals	Angled	PG7	Nylon 66	D
4	Male		CNM12-S4SP0-BP7	Screw Terminals	Straight	PG7	Brass-nickel	F
			CNM12-R4SP0-BP7	Screw Terminals	Angled	PG7	Brass-nickel	G
			CNM12-S4SP0-BP9	Screw Terminals	Straight	PG9	Brass-nickel	H
5	Female		CNF12-S5SP0-BP7	Screw Terminals	Straight	PG7	Brass-nickel	A
			CNF12-R5SP0-BP7	Screw Terminals	Angled	PG7	Brass-nickel	B
			CNF12-S5SP0-PP7	Screw Terminals	Straight	PG7	Nylon 66	C
			CNF12-R5SP0-PP7	Screw Terminals	Angled	PG7	Nylon 66	D
			CNF12-S5SP0-BP9	Screw Terminals	Straight	PG9	Brass-nickel	E
5	Male		CNM12-S5SP0-BP7	Screw Terminals	Straight	PG7	Brass-nickel	F
			CNM12-R5SP0-BP7	Screw Terminals	Angled	PG7	Brass-nickel	G
			CNM12-S5SP0-BP9	Screw Terminals	Straight	PG9	Brass-nickel	H
8	Female		CNF12-S8SP0-BP9	Screw Terminals	Straight	PG9	Brass-nickel	I
			CNF12-R8SP0-BP9	Screw Terminals	Angled	PG9	Brass-nickel	J
8	Male		CNM12-S8SP0-BP9	Screw Terminals	Straight	PG9	Brass-nickel	K
			CNM12-R8SP0-BP9	Screw Terminals	Straight	PG9	Brass-nickel	L

Dimensions (mm) / (to convert to inches multiply by 0.03937)



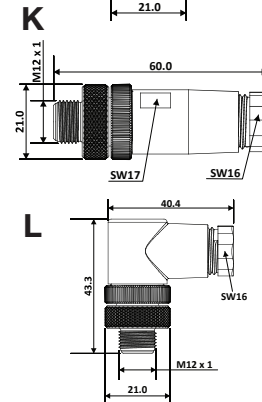
Technical Information

General Specification

Operating Voltage	250V (4 pole), 60V (5 pole), 30V (8 pole)
Current Rating	4A (4, 5 pole), 2A (8 pole)
Insulation Resistance	>=100 MΩ
Temperature Range	-25°C...+75°C
Protection Degree	IP67

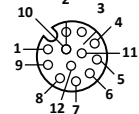
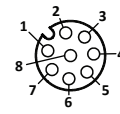
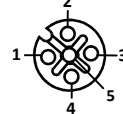
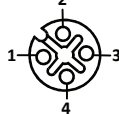
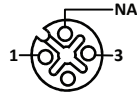
Material Specification

Grip Material	Nylon 66
Contact	CU-Zn
Contact Plating	Gold Plated
Contact Carrier	Nylon 66
O-Ring	Neoprene
Grip Color	Black
Cable Gland	PG7 (BP7), PG9 (BP9)
Coupling Nut	Nickel-Plated Brass (BP7), Nylon 66 (PP7)



M12 Molded Female Cable Assemblies

- Female Connector to Flying Lead
- Straight and Angled Connectors
- PVC & PUR Cable
- 3, 4, 5, 8 and 12 pole Connectors
- 1, 2, 5, 10m standard cable length
- Custom cable length available



Straight Connector

Cable Type	Cable Length	3 Pole Cat No.	4 Pole Cat No.	5 Pole Cat No.	8 Pole Cat No.	12 Pole Cat No.
PVC	1m	CBF12-S43N0-01BPVC	CBF12-S44N0-01BPVC	CBF12-S55N0-01BPVC	CBF12-S88N0-01BPVC	CBF12-S12N0-01BPVC
	1m	CBF12-S43N0-01BP34	CBF12-S44N0-01BP34	CBF12-S55N0-01BP34	-	-
	2m	CBF12-S43N0-02BPVC	CBF12-S44N0-02BPVC	CBF12-S55N0-02BPVC	CBF12-S88N0-02BPVC	CBF12-S12N0-02BPVC
	2m	CBF12-S43N0-02BP34	CBF12-S44N0-02BP34	CBF12-S55N0-02BP34	-	-
	5m	CBF12-S43N0-05BPVC	CBF12-S44N0-05BPVC	CBF12-S55N0-05BPVC	CBF12-S88N0-05BPVC	CBF12-S12N0-05BPVC
	5m	CBF12-S43N0-05BP34	CBF12-S44N0-05BP34	CBF12-S55N0-05BP34	-	-
PUR	1m	CBF12-S43N0-01BPUR	CBF12-S44N0-01BPUR	CBF12-S55N0-01BPUR	CBF12-S88N0-01BPUR	CBF12-S12N0-01BPUR
	2m	CBF12-S43N0-02BPUR	CBF12-S44N0-02BPUR	CBF12-S55N0-02BPUR	CBF12-S88N0-02BPUR	CBF12-S12N0-02BPUR
	5m	CBF12-S43N0-05BPUR	CBF12-S44N0-05BPUR	CBF12-S55N0-05BPUR	CBF12-S88N0-02BPUR	CBF12-S12N0-05BPUR

Angled Connector

PVC	1m	CBF12-R43N0-01BPVC	CBF12-R44N0-01BPVC	CBF12-R55N0-01BPVC	CBF12-R88N0-01BPVC	CBF12-R12N0-01BPVC
	1m	CBF12-R43N0-01BP34	CBF12-R44N0-01BP34	CBF12-R55N0-01BP34	-	-
	2m	CBF12-R43N0-02BPVC	CBF12-R44N0-02BPVC	CBF12-R55N0-02BPVC	CBF12-R88N0-02BPVC	CBF12-R12N0-02BPVC
	2m	CBF12-R43N0-02BP34	CBF12-R44N0-02BP34	CBF12-R55N0-02BP34	-	-
	5m	CBF12-R43N0-05BPVC	CBF12-R44N0-05BPVC	CBF12-R55N0-05BPVC	CBF12-R88N0-05BPVC	CBF12-R12N0-05BPVC
	5m	CBF12-R43N0-05BP34	CBF12-R44N0-05BP34	CBF12-R55N0-05BP34	-	-
PUR	1m	CBF12-R43N0-01BPUR	CBF12-R44N0-01BPUR	CBF12-R55N0-01BPUR	CBF12-R88N0-01BPUR	CBF12-R12N0-01BPUR
	2m	CBF12-R43N0-02BPUR	CBF12-R44N0-02BPUR	CBF12-R55N0-02BPUR	CBF12-R88N0-02BPUR	CBF12-R12N0-02BPUR
	5m	CBF12-R43N0-05BPUR	CBF12-R44N0-05BPUR	CBF12-R55N0-05BPUR	CBF12-R88N0-05BPUR	CBF12-R12N0-05BPUR

Technical Information

General Specification

Operating Voltage	250V	250V	60V	30V	30V
Current Rating	4A	4A	4A	2A	2A
Insulation Resistance	>=100 MΩ	>=100 MΩ	>=100 MΩ	>=100 MΩ	>=100 MΩ
Temperature Range	-25°C...+75°C	-25°C...+75°C	-25°C...+75°C	-25°C...+75°C	-25°C...+75°C
Protection Degree	IP67	IP67	IP67	IP67	IP67

Material Specification

Grip Material	PU	PU	PU	PU	PU
Contact	CU-Zn	CU-Zn	CU-Zn	CU-Zn	CU-Zn
Contact Plating	Gold Plated	Gold Plated	Gold Plated	Gold Plated	Gold Plated
Contact Carrier	Nylon 66	Nylon 66	Nylon 66	Nylon 66	Nylon 66
O-Ring	Neoprene	Neoprene	Neoprene	Neoprene	Neoprene
Grip Color	Black	Black	Black	Black	Black
Coupling Nut	Nickel-Plated Brass	Nickel-Plated Brass	Nickel-Plated Brass	Nickel-Plated Brass	Nickel-Plated Brass

Cable Specification

Cable Type	PVC/ PUR	PVC/ PUR	PVC/ PUR	PVC/ PUR	PVC/ PUR
Cable Color	Black*	Black*	Black*	Black*	Black*
Wire Size	22AWG (BP34, BPUR), 24AWG (BPVC)	22AWG (BP34, BPUR), 24AWG (BPVC)	22AWG (BP34, BPUR), 24AWG (BPVC)	24 AWG	26 AWG
Cable Diameter	4.8mm	4.8mm	5.5mm	6.4mm	6.5mm

*Other colors available, please contact Altech.

Overview and Ordering Information

Molded Sensor & Actuator Cable Assemblies

- Female/ Male Connectors to Open Cable
- Straight and Angled Connectors
- PVC and PUR Cables
- M8 and M12 versions
- 2, 5, 10m standard length
- Custom length available



CB	F	12	-	S	4	4	N	0	-	02	B	PVC
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TYPE
CB = Cable Assembly

M/F
M = Male
F = Female

Size
08 = M8
12 = M12

Orientation
S = Straight
R = Right Angled

Pins
4
5
8
12

No. Wires
3
4
5
8
12

Shielded
S = Shielded
N = Non Shielded

LEDs
0
2
3

Cable Color
B = Black
G = Green
U = Blue
O = Orange
T = Teal
Y = Yellow

Cable Length
02 = 2m
05 = 5m
10 = 10m
-

Cable Type / Cross Section
PVC
PUR
TPE
P34 : PVC 22AWG
P75 : PVC 18 AWG
PTFE

Field-Wired Connectors

- Female/ Male Versions
- M8 and M12 versions
- Straight and Angled Connectors
- M8: 3, 4 pole
- M12: 4, 5, 8 pole
- Screw/ Solder Terminals
- A-Coding



1	2	3	-	4	5	6	7	8	-	9	10	11
CN	F	12	-	S	3	S	P	0	-	B	P	7

TYPE
CN = Field-Wired Connector

M/F
M = Male
F = Female

Size
08 = M08
12 = M12

Orientation
S = Straight
R = Right Angled

Pins
3
4
5

Connection
S = Screw
L = Solder

Housing Material
P = Plastic (PA66)
B = Brass
S = Stainless Steel
Z = Zin Die Cast

LEDs
0
2
3

Coupling Nut
B = Brass
P = Plastic

Cable Outlet MOC
P = Plastic
B = Brass
Z = Zinc Casted
S = Stainless Steel

Cable Outlet
7 = PG7
9 = PG9

Panel Feed-Through Connectors

- Female/ Male Versions
- M8 and M12 versions
- Front/ Rear Mount connectors
- M8: 3, 4 pole
- M12: 4, 5, 8, 12 pole
- Custom cable length
- A-Coding



1	2	3	-	4	5	6	7	8	-	9	10
CP	F	12	-	F	P	B	R	5	-	P	2

TYPE
CP = Panel Mount Connector

M/F
M = Male
F = Female

Size
08 = M08
12 = M12

Mounting
F = Front
R = Rear

Mounting
P = PG9
M = M16

MOC
B = Brass
P = Plastic
S = Stainless Steel

MOC
L = Plastic (PA66)
R = Brass
S = Stainless Steel
Z = Zin Die Cast

Pins
3
4
5
8
12

Connection
P = Pre-Wired
S = Solder / PCB

Cable Outlet MOC
0 = No Wire
R = PCB Mount
1 = 100mm
2 = 200mm
3 = 300mm
5 = 500mm