

How to Select a Cable Connector

1. Connector/Cable Types

- Field wireable connectors
- Overmold connector/ cable assembly with flying leads
- Dual connector cables
- Panel mount bulkhead connectors

2. Connector Type(s), Pin No. & Coding

M8, M12 size connectors with various codings (see below)

3. Cable Type

PVC, PUR, TPE, Ethernet CAT5, CAT6, etc...

4. Cable Length

1, 2, 5 and 10m standard cable length, others available on request

COMPETITORS

Balluf
Belden
Mencom
Murr Elektronik
Phoenix Contact
TE Connectivity
Turck

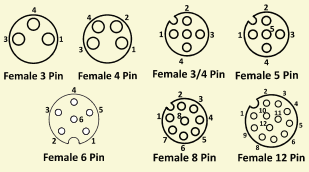
Coding Types Explained

A-Coding

Widely used and most common type of connectors. Support AC/ DC connections. Available in M8 and M12 connectors in various pin configurations 3 - 12 pins.

Main applications are signal transmission for sensors, actuators and motors. Also Ethernet connections up to Cat 5e, CC-Link and CAN Open.

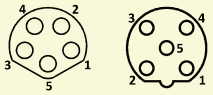
M8 M12



B-Coding

Available in M8 and M12 connectors with 5 pins.
Main applications are data transmission in network cables for fieldbus connections, e.g Profibus.

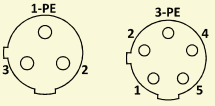
M8 M12



C-Coding

Less common and primarily used with AC sensors and actuators. M12 3 and 5 pin are available.

M12

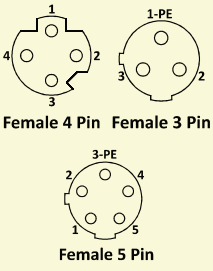


D-Coding

Available in M8/ M12 4 pin versions.

Mainly used in industrial Ethernet connections, e.g. Profinet and Ethernet/ IP. Speeds up to 100Mb/s.

M8 M12



X-Coding

M12 connector with 8 Pins

High Speed data transfer in industrial applications, e.g connecting High-Def cameras. Speeds up to 10 Gb/s in CAT 6/6a cables.

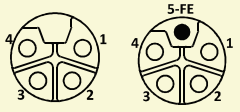


Female 8 Pin

L-Coding

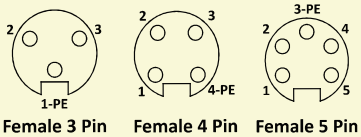
M12 with 4/ 5 pins

Used for power connections up to 16A/ 630V, e.g. DC motors & Drives, LED fixtures, I/O modules.



7/8" Connectors

Available in European and American color code.



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

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 Length
02 = 2m
05 = 5m
10 =10m
–

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

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



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

Bulkhead/ Panel-Mount Connector

- 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



ALBK	F	12	–	F	P	B	R	5	–	P	2

TYPE
ALBK = Bulkhead/ Panel-Mount Connector

Male/Female
M = Male
F = Female

Type
08 = M8
12 = M12

Mounting
F = Front
R = Rear

Thread
P = PG9
M = M16
M20 = M20
M8 = M8
M10 = M10

Nut Material
B = Brass
P = Plastic
S = Stainless

Housing Material
L = Plastic
R = Brass
S = Stainless

No. Pins
3
4
5
8
12

Termination
P = Pre-Wired
S = Solder / Screw / PCB

Cable / Wire Length
0 = No Wire/PCB
L = Solder
1 = 100mm
2 = 200mm
3 = 300mm
5 = 500mm