

7/8" MINI Cables

4 Pin Cables for DeviceNet, DeviceLogix, Ethernet, Modbus TCP, CANopen, and Sub-Bus

7/8" MINI Straight 4 Pin Female Single Ended Cable, Euro Color Code
MC0405MAC00000000 – 5 Meter
MC0410MAC00000000 – 10 Meter

7/8" MINI 90° 4 Pin Female Single Ended Cable, Euro Color Code
MD0405MAC00000000 – 5 Meter
MD0410MAC00000000 – 10 Meter

5 Pin Cables for PROFIBUS DP, PROFINET and POWERLINK

7/8" MINI Straight 5 Pin Female Single Ended Cable, Euro Color Code
MC0505MAG00000000 – 5 Meter
MC0510MAG00000000 – 10 Meter

7/8" MINI 90° 5 Pin Female Single Ended Cable, Euro Color Code
MD0505MAG00000000 – 5 Meter
MD0510MAG00000000 – 10 Meter

7/8" MINI Field Wireable Connectors

4 Pin Connectors for DeviceNet, DeviceLogix, Ethernet, Modbus TCP, CANopen, and Sub-Bus

7/8" MINI Straight 4 Pin Female Field Wireable Connector
MC04F90000000000 – Cable Gland – One size fits all

7/8" MINI 90° 4 Pin Female Field Wireable Connector
MD04F20000000000 – PG 9 Cable Gland

5 Pin Connectors for PROFIBUS DP, PROFINET and POWERLINK

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MC05F90000000000 – Cable Gland – One size fits all

7/8" MINI 90° 5 Pin Female Field Wireable Connector
MD05F20000000000 – PG 9 Cable Gland



M12 to 7/8" MINI Cable

4 Pin Cable for Sub-Bus Power



M12 Straight 4 Pin Male to 7/8" MINI 4 Pin Female Extension
TA0401MA0MC0471T – 1 Meter
TA0405MA0MC0471T – 5 Meter
TA0410MA0MC0471T – 10 Meter

M12 Cables

4 Pin Cables for Sub-Bus Power



M12 Straight 4 Pin Female Single Ended Cable, Euro Color Code
TC0405MAE0000000 – 5 Meter
TC0410MAE0000000 – 10 Meter



M12 90° 4 Pin Female Single Ended Cable, Euro Color Code
TD0405MAE0000000 – 5 Meter
TD0410MAE0000000 – 10 Meter



M12 Straight 4 Pin Male to Female Cable Extension
TC0401MAETA04000 – 1 Meter
TC0405MAETA04000 – 5 Meter
TC0410MAETA04000 – 10 Meter

M12 Field Wireable Connectors

4 Pin Connectors for Sub-Bus Power



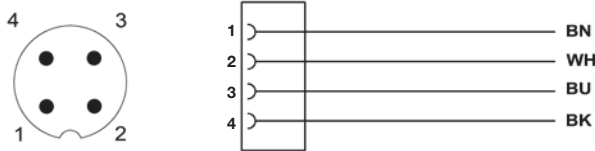
M12 Straight 4 Pin Female Field Wireable Connector
TC04F10000000000 – PG 7 Cable Gland
TC04F20000000000 – PG 9 Cable Gland



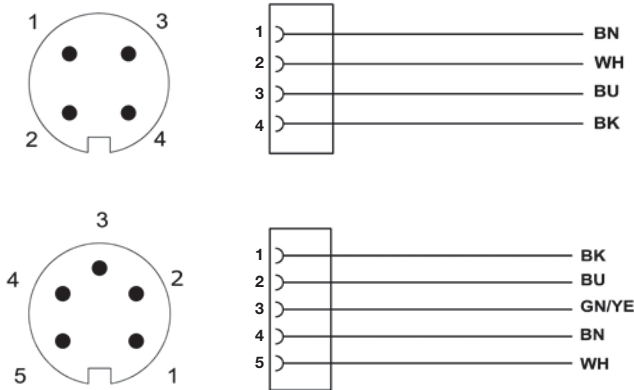
M12 90° 4 Pin Female Field Wireable Connector
TD04F10000000000 – PG 7 Cable Gland
TD04F20000000000 – PG 9 Cable Gland

Pin Out and Technical Data

**M12 Cable - Pin Out / Euro Color Code
(Male View)**



**7/8" MINI Cable - Pin Out / Euro Color Code
(Male View)**



Technical Data	M12	7/8" MINI
Molded Body / Insert	Cable = PVC Field Wireable = Polyamide	Cable = PVC Field Wireable = Polyamide or PBT
Coupling Nut	Nickel Copper Alloy	Black Anodized Aluminum
Cable Jacket Material	PVC	PVC
Cable O.D.	7.4mm	7.4mm (4 Pin & 5 Pin)
Voltage Rating (Nominal)	250 V Max. @ 105° C	250 V Max. @ 105° C
Current Rating	Cables = 4.0 Amps Field Wireable = 4.0 Amps	Cables = 5.5 Amps Field Wireable = 8.0 Amps
Degree of Protection	IP67 (mated)	IP67 (mated)
Operating Temperature	-25° C - 85° C	-40° C - 85° C
Conductor Gauge	Cable = 18 AWG	Cable = 18 AWG
Bend Radius	Cable = 74mm	Cable = 74mm (4 Pin & 5 Pin)
Maximum Wire AWG	Field Wireable = 18 AWG	Field Wireable = 16 AWG
Wire Connection	Field Wireable = Screw Terminal	Field Wireable = Screw Terminal
PG 7 Range	4-6 mm	N/A
PG 9 Range	6-8 mm	5-13 mm – One size fits all
PG 13.5 Range	N/A	5-13 mm – One size fits all



7/8" MINI Drop Cables

7/8" MINI Straight 5 Pin Female Single Ended Cable - Shielded
MC0505MGD0000000 - 5 Meter
MC0510MGD0000000 - 10 Meter

M12 Drop Cables

M12 Straight 5 Pin Female Single Ended Cable - Shielded
TC0505MGD0000000 - 5 Meter
TC0510MGD0000000 - 10 Meter

7/8" MINI 3 Way "T"

3 Way 7/8" MINI "T"
MC0500000MT05000

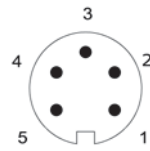
Terminating Resistors "TR"

7/8" MINI & M12 Straight 5 Pin Male Terminators
TA05TR0000000000 - M12 Male
MA05TR0000000000 - MINI Male

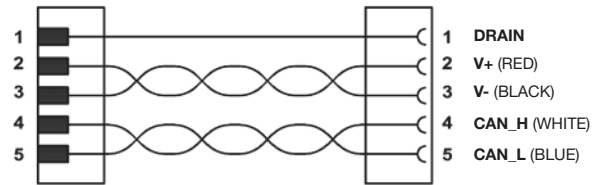
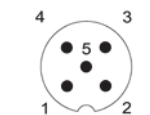
7/8" MINI Field Wireable Connectors

7/8" MINI Straight 5 Pin Field Wireable Connectors
MC05F90000000000 - Female - Cable Gland - One size fits all
MA05F90000000000 - Male - Cable Gland - One size fits all

MINI Cable - Pin Out / Color Code (Male View)



M12 Cable - Pin Out / Color Code (Male View)



Technical Data	Cable	T & TR	Field Wireable
Molded Body / Insert	PVC	PVC	Body = Glass Filled Polyamide
Coupling Nut	Nickel Plated Brass or Anodized Aluminum	Clear Anodized Aluminum	Black Anodized Aluminum
Cable Jacket Material	PVC	N/A	N/A
Cable O.D.	MINI = 8mm M12 = 8mm	N/A	5-13mm - One size fits all
Voltage Rating (Nominal)	150 Volts	T = 300 Volts	600 Volts
Current Rating	MINI = 4.0 Amps MR = 3.0 Amps	T = 8.0 Amps TR = NA	8.0 Amps
Degree of Protection	IP65 (mated)	IP65 (mated)	IP65 (mated)
Operating Temperature	-40° C - 80° C	-40° C - 105° C	-40° C - 90° C
Conductor Gauge	22 AWG Power 24 AWG Signal	N/A	16-22 AWG
Bend Radius	Cable = 72mm	N/A	N/A
Wire Connection	NA	N/A	Screw Terminal



M12 D-Coded Cables

M12 Straight 4 Pin Male D-Coded Single Ended Cable
QA0405MR00000000 – 5 Meter
QA0410MR00000000 – 10 Meter

M12 Straight 4 Pin Male D-Coded Double Ended Cable
QA0405MR0QA04000 – 5 Meter
QA0410MR0QA04000 – 10 Meter

M12 Straight 4 Pin Male D-Coded to Male RJ45 Cable
QA0405MR0VA04000 – 5 Meter
QA0410MR0VA04000 – 10 Meter

M12 Straight 4 Pin Male D-Coded to RJ45 Female Socket Converter
QA04D2MK0VC04000 – 0.2 Meter

M12 D-Coded Field Attachable CONNECTORS

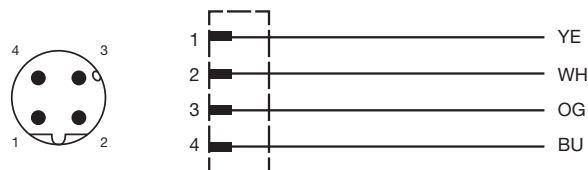
M12 Straight 4 Pin Male D-Coded Field Wireable Connector
QA04F20000000000 – PG 9 Cable Gland – Screw Terminal

M12 Straight 4 Pin Male D-Coded Field Wireable Connector W/IDC
QA04F200R000071N – PG 9 Cable Gland - IDC

RJ45 Field Attachable CONNECTOR

RJ45 Field Wireable Connector with IDC
VA08F200R000071N – PG 9 Cable Gland

M12 D-Coded Cable - Pin Out / Color Code (Male View)



Technical Data	Cable	RJ45 Field Attachable	M12 Field Attachable
Molded Body / Insert	TPU	Housing = PA Carrier = PC	Body = Nickel Plated Zinc Insert = PA 66
Coupling Nut	Nickel Plated Zinc	N/A	Nickel Plated Brass
Cable Jacket Material	PVC	N/A	N/A
Cable O.D.	6.5 to 7.4 mm	Accepts 4.5 to 8.0 mm	Accepts 6.0 to 8 mm
Voltage Rating (Nominal)	250 Volts	N/A	60 Volts
Current Rating	4.0 Amps	1.75 Amps	Screw 4.0 Amps IDC 1.75 Amps
Degree of Protection	IP65 (mated), RJ45 – IP20	IP20	IP 65 (mated)
Operating Temperature	-25° C - 60° C	-10° C - 60° C	-40° C - 85° C
Conductor Gauge	22 & 24 AWG	22 AWG Solid/Stranded	Screw 24-18 AWG IDC 26-22 AWG
Bend Radius Minimum	19.5mm (fixed) 45.5mm (Flexible)	N/A	N/A
Wire Connection	NA	IDC	Screw Terminal, IDC



M12 D-Coded Cables

M12 Straight 4 Pin Male D-Coded Double Ended Cable

QA0405MS0QA04000 – 5 Meter

QA0410MS0QA04000 – 10 Meter

M12 Straight 4 Pin Male D-Coded to Male RJ45 Cable

QA0405MS0VA04000 – 5 Meter

QA0410MS0VA04000 – 10 Meter

M12 Straight 4 Pin Male D-Coded to RJ45 Female Socket Converter

QA04D2MK0VC04000 – 0.2 Meter

M12 D-Coded Field Attachable CONNECTORS

M12 Straight 4 Pin Male D-Coded Field Wireable Connector

QA04F20000000000 – PG 9 Cable Gland – Screw Terminal

M12 Straight 4 Pin Male D-Coded Field Wireable Connector W/IDC

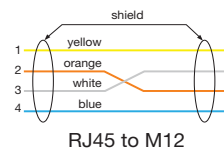
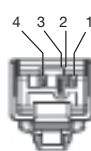
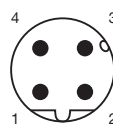
QA04F200R000071N – PG 9 Cable Gland - IDC

RJ45 Field Attachable CONNECTOR

RJ45 Field Wireable Connector with IDC

VA08F200R000071N – PG 9 Cable Gland

M12 D-Coded Cable & RJ45
Pin Out / Color Code (Male View)



Technical Data	Cable	RJ45 Field Attachable	M12 Field Attachable
Molded Body / Insert	N/A	Housing = PA Carrier = PC	Body = Nickel Plated Zinc Insert = PA 66
Coupling Nut	Nickel Plated Zinc or Brass	N/A	Nickel Plated Brass
Cable Jacket Material	PUR	N/A	N/A
Cable O.D.	6.5 mm	Accepts 4.5 to 8.0 mm	Accepts 6.0 to 8 mm
Voltage Rating (Nominal)	N/A	N/A	60 Volts
Current Rating	N/A	1.75 Amps	Screw 4.0 Amps IDC 1.75 Amps
Degree of Protection	IP65 (mated), RJ45 – IP20	IP20	IP 65 (mated)
Operating Temperature	-25° C - 60° C	-10° C - 60° C	-40° C - 85° C
Conductor Gauge	22 AWG	22 AWG Solid/Stranded	Screw 24-18 AWG IDC 26-22 AWG
Bend Radius Minimum	45.5mm	N/A	N/A
Wire Connection	N/A	IDC	Screw Terminal, IDC



M12 D-Coded Cables

M12 Straight 4 Pin Male D-Coded Single Ended Cable - Shielded

QA0405MK00000000 – 5 Meter

QA0410MK00000000 – 10 Meter



M12 Straight 4 Pin Male D-Coded to Male RJ45 Cable - Shielded

QA0405MK0VA04000 – 5 Meter

QA0410MK0VA04000 – 10 Meter



M12 Straight 4 Pin Male D-Coded to RJ45 Female Socket Converter - Shielded

QA04D2MK0VC04000 – 0.2 Meter



M12 Straight 4 Pin Male D-Coded Field Wireable Connector

QA04F20000000000 – PG 9 Cable Gland – Screw Terminal



M12 Straight 4 Pin Male D-Coded Field Wireable Connector w/IDC

QA04F2000000071N – PG 9 Cable Gland - IDC

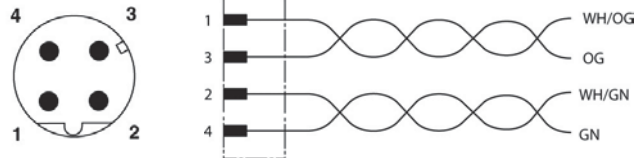


RJ45 Field Wireable Connector

RJ45 Field Wireable Connector with IDC

VA08F2000000071N – PG 9 Cable Gland

M12 D-Coded Cable - Pin Out / Color Code (Male View)



Technical Data	Cable	RJ45 Field Wireable	Field Wireable
Molded Body / Insert	TPU, PA, PA66	Housing = PA Carrier = PC	Body = Nickel Plated Zinc Insert = PA 66
Coupling Nut	Nickel Plated Zinc or Brass	N/A	Nickel Plated Brass
Cable Jacket Material	PUR or PVC	N/A	N/A
Cable O.D.	6.7 or 8.0 mm	4.5 to 8.0 mm	6.0 to 8.0 mm
Voltage Rating (Nominal)	42 Volts	N/A	60 Volts
Current Rating	1.5 Amps	1.75 Amps	Screw 4.0 Amps IDC 1.75 Amps
Degree of Protection	IP65 (mated)	IP20 (mated)	IP65 (mated)
Operating Temperature	-20° C - 60° C	-20° C - 70° C	-40° C - 85° C
Conductor Gauge	26 or 24 AWG	26-22 AWG Solid/Stranded	Screw 24-18 AWG IDC 26-22 AWG
Bend Radius	40mm	N/A	N/A
Wire Connection	NA	IDC	IDC, Screw Terminal



M12 Reverse Key B-Coded Cables

M12 Straight 5 Pin Male Reverse Key Single Ended Cable - Shielded

RA0505MHP0000000 – 5 Meter
RA0510MHP0000000 – 10 Meter

M12 Straight 5 Pin Female Reverse Key Single Ended Cable - Shielded

RC0505MHP0000000 – 5 Meter
RC0510MHP0000000 – 10 Meter

M12 Straight 5 Pin MALE TO FEMALE Reverse Key EXTENSION CABLE

RC0505MHPRC05000 – 5 Meter
RC0510MHPRC05000 – 10 Meter

M12 Reverse Key B-Coded Field Wireable Connectors

M12 Straight 5 Pin Male Reverse Key Field Wireable Connector

RA05F200P0000000 – PG 9 Cable Gland

M12 Straight 5 Pin Female Reverse Key Field Wireable Connector

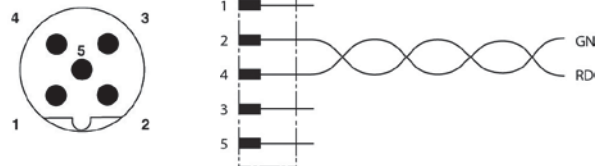
RC05F200P0000000 – PG 9 Cable Gland

M12 Reverse Key B-Coded Terminating Resistor

M12 Straight 5 Pin Male Reverse Key Terminating Resistor

RA05TR0000000000 - Male

M12 Reverse Key B-Coded Cable Pin Out / Color Code (Male View)



Technical Data	Cable	TR	Field Wireable
Molded Body / Insert	TPU	TR = TPU	Body = Nickel Plated Zinc Insert = PA 66
Coupling Nut	Nickel Plated Zinc	Nickel Plated Zinc or Brass	Nickel Plated Brass
Cable Jacket Material	PUR	N/A	N/A
Cable O.D.	7.4 mm	N/A	8.5 mm Max.
Voltage Rating (Nominal)	250 volts	60 Volts	60 Volts
Current Rating	4.0 Amps	4.0 Amps	4.0 Amps
Degree of Protection	IP65 (mated)	IP65 (mated)	IP 65 (mated)
Operating Temperature	-20° C - 80° C	-20° C - 80° C	-40° C - 85° C
Conductor Gauge	24 AWG	N/A	18 AWG Maximum
Bend Radius	Cable = 78mm	N/A	N/A
Wire Connection	N/A	N/A	Screw Terminal

I/O Cables with SPEEDCON Connector Technology



M12 Straight 4 Pin Male Single Ended Cable, Euro Color Code

TA04E5MIE000071P – 1.5 Meter
TA0403MIE000071P – 3 Meter
TA0405MIE000071P – 5 Meter



M12 90° 4 Pin Male Single Ended Cable, Euro Color Code

TB04E5MIE000071P – 1.5 Meter
TB0403MIE000071P – 3 Meter
TB0405MIE000071P – 5 Meter



M12 Straight 4 Pin Male to Female Cable Extension

TC04E5MIETA0471P – 1.5 Meter
TC0403MIETA0471P – 3 Meter



M12 Straight 3 Pin Male to M8 3 Pin Straight Female Extension

TC03E5MIEPA0371P – 1.5 Meter
TC0303MIEPA0371P – 3 Meter

I/O Connectors



M12 Straight 4 Pin Male Field Wireable Connector, IDC Connection

TA04F2000000081E – PG 9 Cable Gland w/ SPEEDCON connector technology
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M12 Straight 4 Pin Male Field Wireable Connector, Screw Terminal

TA04F10000000000 – PG 7 Cable Gland
TA04F20000000000 – PG 9 Cable Gland



M12 90° 4 Pin Male Field Wireable Connector, Screw Terminal

TB04F10000000000 – PG 7 Cable Gland
TB04F20000000000 – PG 9 Cable Gland

I/O Splitters



M12 to M12 "Y" Splitter, 21mm Spacing

TA0500000JC05000



M12 to M8 "Y" Splitter

TA0400000KC03000



M12 Cable Splitter, 2 Straight M12 Female Connectors
TA04D3MIEJC04000 – 0.3 Meter
TA04E5MIEJC04000 – 1.5 Meter
TA0403MIEJC04000 – 3.0 Meter



M12 Cable Splitter, 2 Straight M8 Female Connectors
TA04D3MIEKC03000 – 0.3 Meter
TA04E5MIEKC03000 – 1.5 Meter
TA0403MIEKC03000 – 3.0 Meter



Wire Stripper Tool
140-1097

I/O Cable Connector Pin Out Diagrams

M12 Cable - Pin Out / Color Code
TA04XXMIE0000000, TB04XXMIE0000000
(Male View)



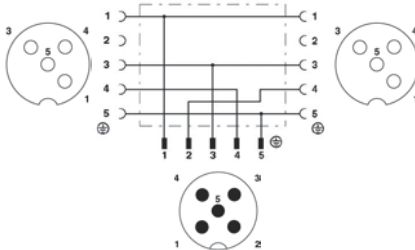
M12 Cable - Pin Out / Color Code
TC03XXMIEPA0371P
(Male to Female View)



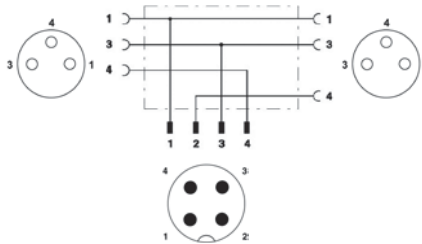
M12 Cable - Pin Out / Color Code
TC03XXMIEPA0371P
(Male to Female View)



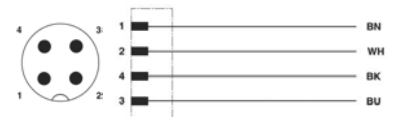
M12 to M12 "Y" Splitter - Pin Out
TA0500000JC05000
(Male to Female View)



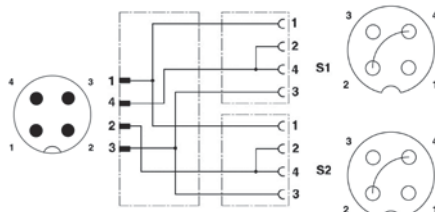
M12 to M8 "Y" Splitter - Pin Out
TA0400000KC03000
(Male to Female View)



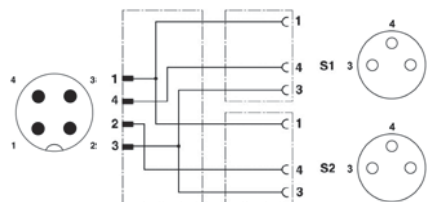
M12 Field Wireable (IDC) - Pin Out
TA04F2000000081E (SPEEDCON)
(Male View)



M12 to M12 Cable Splitter - Pin Out
TA04XXMIEJC04000
(Male to Female View)



M12 to M8 Cable Splitter - Pin Out
TA04XXMIEKC03000
(Male to Female View)



Note:
XX denotes allowable length
See pages 44 and 45.

Cable and Connector Technical Data

Technical Data	M12 Cables	M12/M8 Cables	M12 Connectors
Molded Body / Insert	TPU	TPU	Polyamide (or) PA 66
Coupling Nut	Nickel Plated Zinc	Nickel Plated Zinc	Nickel Plated Zinc
Cable Jacket Material	PUR	PUR	NA
Cable O.D.	4.70 mm	4.70 mm	PG7 4.0 to 6.0 mm PG9 4.0 to 8.0 mm
Voltage Rating	250 Volts	60 Volts	50 Volts
Current Rating (Cond.)	4.0 Amps	3.0 Amps	4.0 Amps
Degree of Protection	IP65 (mated)	IP65 (mated)	IP67 (mated)
Operating Temperature	-25° C to 80° C (fixed instl.)	-25° C to 80° C (fixed instl.)	-25° C to 80° C
Conductor Gauge	22 AWG	22 AWG	22 AWG Min. 18 AWG Max.
Bend Radius	47 mm	47 mm	NA

Technical Data	I/O "Y" Splitter	I/O Cable Splitter
Molded Body / Insert	TPU	TPU
Coupling Nut	Nickel Plated Zinc	Nickel Plated Zinc
Cable Jacket Material	NA	PUR
Cable O.D.	NA	4.40 mm
Voltage Rating	60 Volts	60 Volts
Current Rating (Cond.)	3.0 Amps	3.0 Amps
Degree of Protection	IP67 (mated)	IP67 (mated)
Operating Temperature	-25° C to 90° C	-25° C to 80° C
Conductor Gauge	NA	22 AWG or 24 AWG
Bend Radius	NA	44 mm

Technical Data	Wire Stripper
Use with	PVC Insulation
Stripping Range	28 AWG to 10 AWG
Cutting Range (Flexible)	10 AWG
Cutting Range (Rigid)	12 AWG

Sub-Bus Cables



M12 Straight 5 Pin Male to Female Sub-Bus Cable - Shielded
TA0501MGDTC0571P – 1 Meter
TA0505MGDTC0571P – 5 Meter
TA0510MGDTC0571P – 10 Meter



M12 Straight 5 Pin Female FIELD WIREABLE CONNECTOR, SPRING CAGE
TC05F200000071V – PG9 Cable Gland



M12 Straight 5 Pin Male FIELD WIREABLE CONNECTOR, SPRING CAGE
TA05F2000000071V – PG9 Cable Gland



M12 90° 5 Pin Female FIELD WIREABLE CONNECTOR, SPRING CAGE
TD05F2000000071V – PG9 Cable Gland



M12 90° 5 Pin male FIELD WIREABLE CONNECTOR, SPRING CAGE
TB05F2000000071V – PG9 Cable Gland



Bulk Sub-Bus Cable	*NOTE
000550MGD0005000 – 50 Meter Length	
0005A0MGD0005000 – 100 Meter Length	

*** Note:**

Length of field wired cables should not exceed the maximum length of 30 meters for total sub-bus communications link. See appropriate technical manual for sub-bus length requirements. The cable assemblies and Bulk cable are the only approved cables for the G3 Sub-Bus link. See technical document TDG3SBWD1-0EN for proper installation and wiring of field wireable connectors.

Technical Data

Technical Data	Cable	Connectors	Bulk Cable
Molded Body / Insert	TPU	Zinc - Nickel Plated	N/A
Coupling Nut	Zinc - Nickel Plated	Brass - Nickel Plated	N/A
Cable Jacket Material	PUR	N/A	Gray RAL 7001
Cable O.D.	6.70 mm	N/A	6.70 mm
Voltage Rating (Nominal)	60 Volts	60 Volts	60 Volts
Current Rating	4.0 Amps	4.0 Amps	4.0 Amps
Degree of Protection	IP65 (mated)	IP65 (mated)	IP65 (terminated)
Operating Temperature	-40° C - 80° C	-40° C - 80° C	-20° C - 75° C
Conductor Gauge	24 AWG Signal 22 AWG Power	26-20 AWG	24 AWG Signal 22 AWG Power
Bend Radius	67 mm	N/A	67 mm
No. of Bending Cycles	5 Million	N/A	5 Million