Accessories for DeviceNet™

The modules on either side of the system must be provided with terminating resistors \bigcirc

N°	Accessories	Description			Part Number (Europe)	Part Number (Americas)
		M12 Backplane extension cables witl	nnecto	• •		
G	1	5 pin straight 7/8-16 UN female network connec Field Wireable	ctor,		88161930	MC05F90000000000
	×	5 pin straight 7/8-16 UN female network connec	ctor.	5 m	-	MC0505MGD0000000
	10	Single Ended Cable - Shielded	,	10 m	-	MC0510MGD0000000
	×	5 Pin M12 Straight female network connector,		5 m	-	TC0505MGD0000000
	1	Single Ended Cable - Shielded		10 m	-	TC0510MGD0000000
Н	100	5 pin straight 7/8-16 UN male network connecto	or, Field Wireable	2	88161931	MA05F90000000000
F	00	T-connector 7/8-16 UN, 5 male / female / female pins, MINI 3 Way "T"			88161932	мсо500000мто5000
L1		Terminating resistor 7/8-16 UN female plug 1	20 ohms		88161933	-
L2	6	Terminating resistor 7/8-16 UN male plug 120) ohms		88161934	MA05TR0000000000
	0	Terminating resistor M12 male plug			-	TA05TR0000000000
		4 pin straight female cable connector 7/8", su	pply 24		230-1003	-
		4 pin elbow female cable connector 7/8", supp	ply 24 V		230-1001	-
J		4 pin elbow female cable connector 7/8" with 9.15 m supply 24 V DC	1 = brown 2 = white 3 = blue 4 = black		230-950	-
	X	7/8" MINI Straight 5 Pin Female Single Ended Ca	traight 5 Pin Female Single Ended Cable, Code 10 m		-	MC0505MAG0000000
	11 6	Euro Color Code			-	MC0510MAG0000000
	×	7/8" MINI 90° 5 Pin Female Single Ended Cable,		5 m	-	MD0505MAG0000000
	11 0	Euro Color Code		10 m	-	MD0510MAG0000000

(K) Cable to be ordered separately.

Series G3

MINI Cable Pin Out/Color Code

(Male View)

M12 Cable Pin Out/Color Code

(Male View)

(Male View)

(Male View)

(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	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 to 80 °C (-40 °F to 176 °F)	-40 °C to 105 °C (-40 °F to 221 °F)	-40 °C to 90 °C (-40 °F to 194 °F)
Conductor Gauge	22 AWG Power 24 AWG Signal	N/A	16 – 22 AWG
Bend Radius Minimum	Cable = 72mm	N/A	N/A
Wire Connection	NA	N/A	Screw Terminal

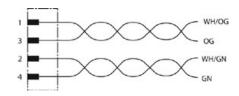
Accessories for Modbus® TCP/IP

Accessory	Description		Part Number (Europe)	Part Number (Americas)
	M12 Straight 4 Pin Male D-Coded to Male RJ45 network	5m	QA0405MI	K0VA04000
5 5	Cable - Shielded 10m		QA0410MK0VA04000	
	M12 Straight 4 Pin Male D-Coded Single Ended Cable	5m	-	QA0405MK00000000
0	Witz Straight 4 Fill Male D-Coded Single Linded Cable	10m	-	QA0410MK00000000
	M42 Chusimht 4 Din Mala D. Cadad Davible Forded Cable	5m	-	QA0405MK0QA04000
0	M12 Straight 4 Pin Male D-Coded Double Ended Cable	10m	-	QA0410MK0QA04000
	M12 Straight 4 Pin Male D-Coded to RJ45 Female Socket Convertor			QA04D2MK0VC04000
	M12 Straight 4 Pin Male D-Coded Field Wireable network PG 9 Cable Gland – Screw Terminal	M12 Straight 4 Pin Male D-Coded Field Wireable network Connector PG 9 Cable Gland – Screw Terminal		
	M12 Straight 4 Pin Male D-Coded Field Wireable Conne PG 9 Cable Gland - IDC	-	QA04F2000000071N	
	RJ45 Field Wireable Connector PG 9 Cable Gland - IDC	-	VA08F2000000071N	
	4 pin straight female cable connector 7/8", suply 24 V DC		230-1003	-
600 P	4 pin elbow female cable network connector 7/8" supply 24 V DC		230-1001	-
		3 n 2 = white e 4 = black	230-950	-

Series G3

M12 D-Coded Cable -Pin Out/Color Code





Technical Data	Cable	RJ45 Field Wireable	M12 Field Attachable
Molded Body/Insert	TPU, PA, PA66	Housing = PA Carrier = PC	Body = Nickel Plated Zinc Insert = PA 66
Coupling Nut	Nickel Plated Zinc or Brass	NA	Nickel Plated Brass
Cable Jacket Material	PUR or PVC	NA	NA
Cable O.D.	0.67 to 8.0mm	4.5 to 8.0mm	6.0 to 8.0mm
Voltage Rating (Nominal)	42 Volts	NA	60 Volts
Current Rating	1.5 Amps	1.75 Amps	Screw 4.0 Amps IDC 1.75 Amps
Degree of Protection	IP65 (mated)	IP20	IP 65 (mated)
Operating Temperature	-20 °C to 60 °C (-4 °F to 140 °F)	-20 °C to 70 °C (-4 °F to 158 °F)	-40 °C to 85 °C (-40 °F to 185 °F)
Conductor Gauge	26 & 24 AWG	26 – 22 AWG Solid/Stranded	Screw 24 – 18 AWG IDC 26 – 22 AWG
Bend Radius	40mm	NA	NA
Wire Connection	NA	IDC	IDC, Screw Terminal

Accessories for PROFIBUS™ DP

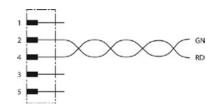
The modules on either side of the system must be provided with terminating resistors (H)

N°	Accessory	Desci	ription		Part Number (Europe)	Part Number (Americas)
F		T-connector M12-B, 5 female / m (Profibus 12Mb max)	ale / male pins		88100712	-
G	The second second	M12-B connector , 5 female pins - for cable dia. 6 - 8 mm (Profibus 12Mb max)			88100713	RC05F200P0000000
	1	M12 Straight 5 Pin Female Reven	se Key Single Ended Cable	5m	-	RC0505MHP0000000
	9 1	- Shielded		10m	-	RC0510MHP0000000
L		M12-B connector , 5 male pins - for cable dia. 6 - 8 mm (Profibus 12Mb max)			88100714	RA05F200P0000000
	10	M12 Straight 5 Pin Female Reverse Key Single Ended Cable		5m	-	RA0505MHP0000000
	0	- Shielded			-	RA0510MHP0000000
	1	M12 Straight 5 Pin MALE TO FEMALE Reverse Key		5m	-	RC0505MHPRC05000
	0 5	EXTENSION CABLE		10m	-	RC0510MHPRC05000
Н		Terminating resistor M12-B - male plug			88100716	RA05TR0000000000
	1	5 pin straight female cable conn	ector 7/8"		MC05F90000000000	-
		5 pin elbow female cable connec	ctor 7/8"		MD05F20000000000	-
J	×	7/8" MINI Straight 5 Pin Female		5m	-	MC0505MAG0000000
	11 0	Single Ended Cable, Euro Color Code	male view	10m	-	MC0510MAG0000000
	X	7/8" MINI 90° 5 Pin Female	5 GN/YE BN WH	5m	-	MD0505MAG0000000
	Single Ended Cable, Euro Color Code			10m	MD0510M	AG000000
		Dust cover - M12 female			88157773	-

(K) Cable to be ordered separately.

M12 Reverse Key B-Coded Cable - Pin Out/Color Code



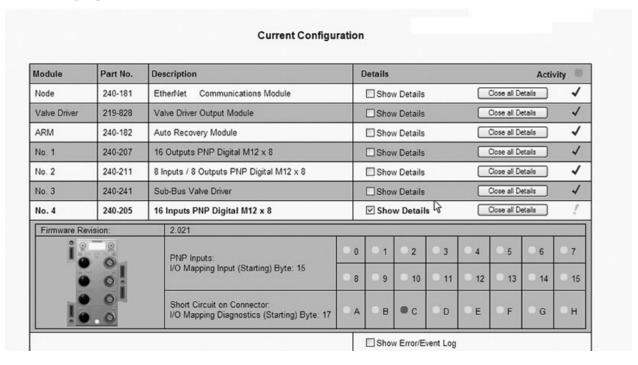


Technical Data	Cable	RJ45 Field Attachable	M12 Field Attachable
Molded Body/Insert	TPU	TR = TPU	Body = Nickel Plated Zinc Insert = PA 66
Coupling Nut	Nickel Plated Zinc	Nickel Plated Zinc or Brass	Nickel Plated Brass
Cable Jacket Material	PUR	N/A	N/A
Cable O.D.	7.4 mm	N/A	8.5 mm Max.
Voltage Rating (Nominal)	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 to 80 °C (-4 °F to 176 °F)	-10 °C to 60 °C (14 °F to 140 °F)	-40 °C to 85 °C (-40 °F to 185 °F)
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

Accessories for PROFINET™

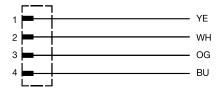
Accessory	Description		Part Number (Europe)	Part Number (Americas)	
1	M42 Chuninkt 4 Din Mala D. Cadada	As Mala DIAS Cable Chiefded	5m	QA0405MK0VA04000	QA0405MR0VA04000
8 1	M12 Straight 4 Pin Male D-Coded	to Male RJ45 Cable - Shleided	10m	QA0410MK0VA04000	QA0410MR0VA04000
1	M42 Churimht 4 Din Mala D. Cadad	Cincula Findad Cabla	5m	-	QA0405MR00000000
0	M12 Straight 4 Pin Male D-Coded	Single Ended Cable	10m	-	QA0410MR00000000
1)			5m	-	QA0405MR0QA04000
5 5	M12 Straight 4 Pin Male D-Coded	Double Ended Cable	10m	-	QA0410MR0QA04000
83	M12 Straight 4 Pin Male D-Coded to RJ45 Female Socket Convertor 0.2m			-	QA04D2MK0VC04000
	M12 Straight 4 Pin Male D-Coded Field Wireable Connector PG 9 Cable Gland – Screw Terminal			QA04F200	00000000
	M12 Straight 4 Pin Male D-Coded PG 9 Cable Gland - IDC	Field Wireable Connector		-	QA04F200R000071N
100	5 pin straight female Field Wireab	ole cable connector 7/8"		MC05F90000000000	-
	5 pin elbow female Field Wireable	e cable connector 7/8"		MD05F20000000000	-
	RJ45 Field Wireable Connector PG 9 Cable Gland			-	VA08F200R000071N
X	7/8" MINI Straight 5 Pin Female Single Ended Cable, Euro Color Code 10m		5m	-	MC0505MAG0000000
11 0			10m	-	MC0510MAG0000000
X	7/8" MINI 90° 5 Pin Female Single	male view	5m	-	MD0505MAG0000000
11 0	Ended Cable, Euro Color Code 4 3 4 5 GN/YE BN WH 10m		MD0510M	AG000000	

Server web page



M12 D-Coded Cable -Pin Out/Color Code





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 7.4mm	Accepts 4.5 to 8.0mm	Accepts 6.0 to 8mm
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 to 60 °C (-13 °F to 140 °F)	-10 °C to 60 °C (14 °F to 140 °F)	-40 °C to 85 °C (-40 °F to 185 °F)
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	N/A	IDC	Screw Terminal, IDC

Accessories for Ethernet POWERLINK®

Accessory	Descri	ption		Part Number (Europe)	Part Number (Americas)
	M12 Straight 4 Pin Male D-Coded to	Mala BIAE Cabla Shielded	5m	QA0405MK0VA04000	QA0405MS0VA04000
5 1	Witz Straight 4 Pill Male D-Coded to	iviale KJ45 Cable - Shleided	10m	QA0410MK0VA04000	QA0410MS0VA04000
1)	M12 Straight 4 Pin Male D-Coded to	Mala PIAS Cable - Shielded	5m	-	QA0405MS0QA04000
55	Witz Straight 4 Filt Wale D-Coded to	iviale 1945 Cable - Sillelded	10m	-	QA0410MS0QA04000
83	M12 Straight 4 Pin Male D-Coded to F	-	QA04D2MK0VC04000		
	M12 Straight 4 Pin Male D-Coded Field Wireable Connector PG 9 Cable Gland – Screw Terminal				000000000
	M12 Straight 4 Pin Male D-Coded Field Wireable Connector PG 9 Cable Gland - IDC			-	QA04F200R000071N
	5 pin straight female Field Wireable cable connector 7/8"			MC05F90000000000	-
	5 pin elbow female Field Wireable ca	able connector 7/8"		MD05F20000000000	-
	RJ45 Field Wireable Connector			-	VA08F200R000071N
X	7/8" MINI Straight 5 Pin Female		5m	-	MC0505MAG0000000
11 6	Single Ended Cable, Euro Color Code	male view	10m	-	MC0510MAG0000000
×	7/8" MINI 90° 5 Pin Female Single	4 GNIYE 5 BN WH	5m	-	MD0505MAG0000000
11 0	Ended Cable, Euro Color Code		10m	MD0510MAG0000000	

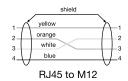
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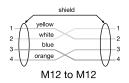
Module	Part No.	Description		Details					Acti	vity 🔳
Node	240-181	EtherNet Communications Module		Sho	w Details			Close all D	etails	✓
Valve Driver	219-828	Valve Driver Output Module		Show Details				Close all Details		
ARM	240-182	Auto Recovery Module		Show Details				Close all Details		
No. 1	240-207	16 Outputs PNP Digital M12 x 8		☐ Show Details			Close all Details			1
No. 2	240-211	8 Inputs / 8 Outputs PNP Digital M12 x 8		Show Details			Close all Details			✓
No. 3	240-241	Sub-Bus Valve Driver		Show Details				Close all Details		
No. 4	240-205	16 Inputs PNP Digital M12 x 8		☑ Show Details 🖟				Close all Details		- [
Firmware Re	vision:	2.021		ų.						
i	9	PNP Inputs:	□ 0	0.1	2	3	□ 4	5	6	0 7
!		I/O Mapping Input (Starting) Byte: 15	- 8	0 9	0 10	0 11	12	13	0 14	9 15
10	0	Short Circuit on Connector: I/O Mapping Diagnostics (Starting) Byte: 17	□ A	ОВ	• c	O D	0 E	0 F	- G	• н

M12 D-Coded Cable & RJ45 Pin Out/Color Code









Technical Data	Cable	RJ45 Field Attachable	M12 Field Attachable
Molded Body/Insert	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.	6.5mm	Accepts 4.5 to 8.0mm	Accepts 6.0 to 8mm
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 to 60 °C (-13 °F to 140 °F)	-10 °C to 60 °C (14 °F to 140 °F)	-40 °C to 85 °C (-40 °F to 185 °F)
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

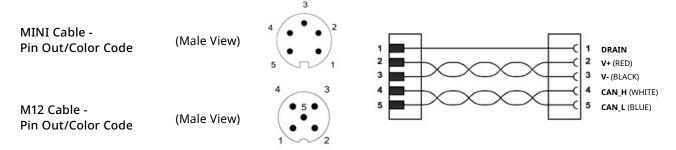
Accessories for CANopen®

The modules on either side of the system must be provided with terminating resistors (H)

	Accessory	Description		Part Number (Europe)	Part Number (Americas)
G	10	5 pin straight 7/8-16 UN female network connector, Field Wireable		88161930	MC05F90000000000
	×	5 pin straight 7/8-16 UN female network connector,	5m	-	MC0505MGD0000000
	1 6	Single Ended Cable - Shielded	10m	-	MC0510MGD0000000
	×	5 Pin M12 Straight female network connector, Single Ended	5m	-	TC0505MGD0000000
	1	Cable - Shielded	10m	-	TC0510MGD0000000
Н	The state of the s	5 pin straight 7/8-16 UN male network connector, Field Wire	able	88161931	MA05F90000000000
F		T-connector 7/8-16 UN, 5 male / female / female pins, MINI 3 Way "T"	88161932	MC0500000MT05000	
L1		Terminating resistor 7/8-16 UN female plug 120 ohms		88161933	-
L2	6	Terminating resistor 7/8-16 UN male plug 120 ohms		88161934	MA05TR0000000000
	1	Terminating resistor M12 male plug		-	TA05TR0000000000
		4 pin straight female cable connector 7/8", supply 24	230-1003	-	
	5111	4 pin elbow female cable connector 7/8", supply 24 V		230-1001	-
J		4 pin elbow female cable connector 7/8" with 9.15 m supply 24 V DC		230-950	-

(K) Cable to be ordered separately.

Series G3



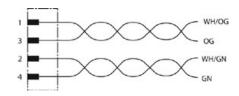
Technical Data	Cable	T & TR	Field Wireable
Molded Body/Insert	PVC	PVC	Body = Glass Filled Polyamide
Coupling Nut	Nickel Plated Brass or Anodized Aluminum	Clear Anodized Aluminum	Black Anodized Aluminum
Cable Jacket Material	PVC	N/A	N/A
Cable O.D.	MINI = 8mm	N/A	5 – 13mm - One size fits all
Voltage Rating (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 to 80 °C (-40 °F to 176 °F)	-40 °C to 105 °C (-40 °F to 221 °F)	-40 °C to 90 °C (-40 °F to 194 °F)
Conductor Gauge	22 AWG Power 24 AWG Signal	N/A	16 – 22 AWG
Bend Radius Minimum	Cable = 72mm	N/A	N/A
Wire Connection	NA	N/A	Screw Terminal

Accessories for EtherNet/IP™ DLR

Accessory	Description			Part Number (Europe)	Part Number (Americas)
1	M12 Straight 4 Pin Male D-Coded to Male RJ45 network Cable		5m	QA0405MI	K0VA04000
3 8	- Shielded		10m	QA0410MI	K0VA04000
1	M12 Straight 4 Pin Male D-Coded Single Ended Cab	ale -	5m	-	QA0405MK00000000
O A			10m	-	QA0410MK00000000
	M12 Straight 4 Pin Male D-Coded Double Ended Ca	ble	5m	-	QA0405MK0QA04000
S 5			10m	-	QA0410MK0QA04000
1	M12 Straight 4 Pin Male D-Coded to RJ45 Female S vertor	Socket Con-	0.2m	-	QA04D2MK0VC04000
	M12 Straight 4 Pin Male D-Coded Field Wireable network Connector			QA04F200	00000000
	M12 Straight 4 Pin Male D-Coded Field Wireable Connector PG 9 Cable Gland - IDC			-	QA04F2000000071N
	RJ45 Field Wireable Connector PG 9 Cable Gland - IDC			-	VA08F2000000071N
100	4 pin straight female cable connector 7/8", suply 24 V DC			230-1003	-
	4 pin elbow female cable connector 7/8", suply 24 V DC			230-1001	-
10		2 4 1 3 = brown 2 = wh 3 = blue 4 = bla		230-950	-

M12 D-Coded Cable -Pin Out/Color Code





Technical Data	Cable	RJ45 Field Wireable	M12 Field Attachable
Molded Body/Insert	TPU, PA, PA66	Housing = PA Carrier = PC	Body = Nickel Plated Zinc Insert = PA 66
Coupling Nut	Nickel Plated Zinc or Brass	NA	Nickel Plated Brass
Cable Jacket Material	PUR or PVC	NA	NA
Cable O.D.	0.67 to 8.0mm	4.5 to 8.0mm	6.0 to 8.0mm
Voltage Rating (Nominal)	42 Volts	NA	60 Volts
Current Rating	1.5 Amps	1.75 Amps	Screw 4.0 Amps IDC 1.75 Amps
Degree of Protection	IP65 (mated)	IP20	IP 65 (mated)
Operating Temperature	-20 °C to 60 °C (-4 °F to 140 °F)	-20 °C to 70 °C (-4 °F to 158 °F)	-40 °C to 85 °C (-40 °F to 185 °F)
Conductor Gauge	26 & 24 AWG	26 – 22 AWG Solid/Stranded	Screw 24 – 18 AWG IDC 26 – 22 AWG
Bend Radius	40mm	NA	NA
Wire Connection	NA	IDC	IDC, Screw Terminal

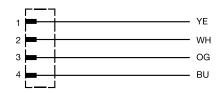
Accessories for EtherCAT®

Accessory	Description	Part Number (Europe)	Part Number (Americas)	
	M12 Straight 4 Pin Male D-Coded to Male RJ45 Cable -	5m	QA0405MK0VA04000	QA0405MT0VA04000
00	Shielded supply 24 V DC	10m	QA0410MK0VA04000	QA0410MT0VA04000
1)	M12 Straight 4 Pin Male D-Coded Single Ended Cable	5m	-	QA0405MT00000000
S A	Witz Straight 4 i iii Male D Coded Single Ended Cable	10m	-	QA0410MT00000000
1)	M12 Straight 4 Pin Male D-Coded Double Ended Cable	5m	-	QA0405MT0QA04000
S	In 2 Straight 11 In Male B Coded Boaste Ended Caste	10m	-	QA0410MT0QA04000
03	M12 Straight 4 Pin Male D-Coded to RJ45 Female Socket Convertor	0.2m	-	QA04D2MK0VC04000
	M12 Straight 4 Pin Male D-Coded Field Wireable Connector PG 9 Cable Gland – Screw Terminal	QA04F200	00000000	
	M12 Straight 4 Pin Male D-Coded Field Wireable Connector PG 9 Cable Gland - IDC		-	QA04F200R000071N
	RJ45 Field Wireable Connector PG 9 Cable Gland - IDC	-	VA08F200R000071N	
100	5 pin straight female cable connector 7/8", supply 24 V DC		MC05F90000000000	-
	5 pin elbow female cable connector 7/8", supply 24 V DC	MD05F20000000000	-	
X	7/8" MINI Straight 5 Pin Female Single Ended Cable,	5m	-	MC0505MAG0000000
11 6	Euro Color Code male view 1 BK BU SUYE	10m	-	MC0510MAG0000000
X	7/8" MINI 90° 5 Pin Female Single	5m	-	MD0505MAG0000000
11 0	Ended Cable, Euro Color Code	10m	MD0510M	AG000000

Series G3

M12 D-Coded Cable -Pin Out/Color Code





Technical Data	Cable	RJ45 Field Wireable	M12 Field Attachable
Molded Body/Insert	TPU/PE	Housing = PA Carrier = PC	Nickel Plated Zinc/PA 66
Coupling Nut	Nickel Plated Zinc	NA	Nickel Plated Brass
Cable Jacket Material	PVC	NA	NA
Cable O.D.	6.5mm	Accepts 4.5 to 8.0mm	Accepts 4.0 to 8mm
Voltage Rating (Nominal)	250 Volts	NA	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	-40 °C to 70 °C (-40 °F to 158 °F)	-10 °C to 60 °C (14 °F to 140 °F)	-40 °C to 85 °C (-40 °F to 185 °F)
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)	NA	NA
Wire Connection	NA	IDC	Screw Terminal, IDC

I/O Module Accessories

Accessory	Description		Part Number (Europe)	Part Number (Americas)
5	M12 Straight 4 Pin Male Field Wireable Connector, IDC Connection - PG 9 Cable Gland w/ SPEEDCON® connector technology		-	TA04F2000000081E
	5 pin straight male M12 connector		88100330	-
60	M12 Straight 4 Pin Male Field Wireable Connector, Screw Terminal - PG 7 Ca	able Gland	-	TA04F10000000000
6	M12 Straight 4 Pin Male Field Wireable Connector, Screw Terminal - PG 9 Ca	able Gland	-	TA04F20000000000
	5 pin elbow male M12 connector		88161927	-
	M12 Straight 4 Pin Male Field Wireable Connector, Screw Terminal - PG 7 Cable Gland		-	TB04F10000000000
	M12 Straight 4 Pin Male Field Wireable Connector, Screw Terminal - PG 9 Cable Gland		-	TB04F20000000000
	Dust Cover - M12 Male		230	-647
	5 pin male DUO M12 connector for 2 inputs (2 cables, Ø3-5 mm)		88100253	-
	M12 to M12 "Y" Splitter, 21mm Spacing		-	TA0500000JC05000
	M12 to M8 "Y" Splitter		-	TA0400000KC03000
1	4	1.5 m	TA04E5MIE000071P	
4/	M12 SPEEDCON connector Straight 4 Pin Male Single Ended Cable, Euro Color Code	3 m	TA0403M1	E000071P
1	1 BN	5 m	TA0405M1	E000071P
1	M12 SPEEDCON connector 90° 4 Pin Male Single	1.5 m		E000071P
y /	Ended Cable, Euro Color Code	3 m		IE000071P
	le successori	5 m		IE000071P
	M12 Straight 4 Pin Male to Female Cable Extension	1.5 m	TC04E5MI	ETA0471P
0 0		3 m	TC0403M1	ETA0471P
1		1.5 m	ТС03Е5МІ	EPA0371P
	M12 Straight 3 Pin Male to M8 3 Pin Straight Female Extension	3 m	TC0303M1	EPA0371P
1		1.5 m	PC03E5M1	EPA0371P
	M8 3 Pin Straight Male to M8 3 Pin Straight Female Extension	PC0303MIEPA0371P		
		140-	1073	
ALC:	Replacement Terminal strip	140-	1074	
-	Keying Element for terminal strip	140-	1076	
-	Keying Element for Module	140-	1077	
	IO-Link Class A to Class B T-connector		R4120	28657

N°*	Accessory	Description	Part Number (Europe)	Part Number (Americas)				
	M12 Backplane extension cables with SPEEDCON connector technology							
	6		1 m	TA0501MGDTC0571P				
Α	11	M12 Straight 5 Pin Male to Female Backplane extension Cable - Shielded (backplane extension)	5 m	TA0505M	GDTC0571P			
	9	Shielded (backplane extension)	10 m	TA0510M	GDTC0571P			
		M12 Backplane field wireable connectors	s and ca	able				
		M12 Straight 5 Pin Female Field Wireable Connector, Spring Ca PG9 Cable Gland	ge	-	TC05F2000000071V			
^		M12 Straight 5 Pin Male Field Wireable Connector, Spring Cage PG9 Cable Gland		-	TA05F2000000071V			
A		M12 90° 5 Pin Female Field Wireable Connector, Spring Cage PG9 Cable Gland		-	TD05F2000000071V			
		M12 90° 5 Pin Male Field Wireable Connector, Spring Cage PG9 Cable Gland		-	TB05F2000000071V			
	11	Bully Sulphy as Calabet	50 m	-	000550MGD0005000			
	0 5	Bulk Sub-bus Cable*	100 m	-	0005A0MGD0005000			
	USUNG CHICA	7/8" MINI 4 Pin cables & connectors for backplane exter	nsion va	alve module power				
	X	7/8" MINI Straight 4 Pin Female Single Ended Cable Furo Color Male View	5 m	MC0405M	AC0000000			
	10	Single Ended Cable, Euro Color Code Male View 1 BN	10 m	MC0410M	AC0000000			
	X	7/8" MINI 90° 4 Pin Female Single	5 m	MD0405M	AC000000			
В		Ended Cable, Euro Color Code 4 BK	10 m	MD0410M	AC0000000			
	1	7/8" MINI Straight 4 Pin Female Field Wireable Connector –Cabl Gland – One size fits all	e	230-1003	MC04F90000000000			
		7/8" MINI 90° 4 Pin Female Field Wireable Connector – PG 9 Ca Gland						

^{*} See page 40 for reference numbers

N° *	Accessory	Description		Part Number (Europe)	Part Number (Americas)			
	M12 4 Pin cables for backplane extension In/Out module power							
	*	M42 to 7/0// MINIT Coble for Designation outcoming Devices	1 m	TA0401MA0MC0471T				
С		M12 to 7/8" MINI Cable for Backplane extension Power M12 Straight 4 Pin Male to 7/8" MINI 4 Pin Female Extension	5 m	TA0405MA	.0MC0471T			
		(distribution of the power 24V to valve systems)	10 m	TA0410MA	.0MC0471T			
	×		1 m	TC0401MA	AETA04000			
	1	M12 Straight 4 Pin Male to Female Cable Extension	5 m	TC0405MA	AETA04000			
	9		10 m	TC0410M	AETA04000			
	X	M12 Straight 4 Pin Male to Female Cable Male View Male View		TC0405M	AE0000000			
	1	Extension	5 m	TC0410MAE0000000	AE0000000			
D	X	M12 Straight 4 Pin Male to Female Cable	1 m	TD0405M	AE0000000			
		Extension 4	5 m	TD0410M	AE0000000			
	M12 Straight 4 Pin Female Field Wireable Connector - PG 7 Cable Gland				TC04F100	00000000		
	0	M12 Straight 4 Pin Female Field Wireable Connector - PG 9 Cable Gland		TC04F200	00000000			
	M12 90° 4 Pin Female Field Wireable Connector - PG 7 Cable Gland			TD04F100	00000000			
		M12 90° 4 Pin Female Field Wireable Connector - PG 9 Cable Gland TD04F			00000000			

^{*}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.

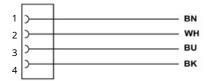
^{*} See page 40 for reference numbers

Pin Out and Technical Data

M12 Cable - Pin Out/Euro Color Code

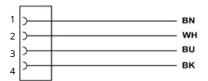
(Male View)



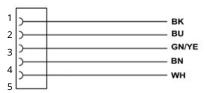


7/8" MINI Cable - Pin Out/Euro Color Code









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/Die Cast Zinc
Cable Jacket Material	PVC	PVC
Cable O.D.	7.4mm	7.4mm (4 Pin & 5 Pin)
Voltage Rating (Nominal)	250 V Max. @ 105 °C (221 °F)	250 V Max. @ 105 °C (221 °F)
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 to 85 °C (-13 °F to 185 °F)	-40 °C to 85 °C (-40 °F to 185 °F)
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 – 6mm	N/A
PG 9 Range	6 – 8mm	5 – 13mm -One size fits all
PG 13.5 Range	N/A	5 – 13mm - One size fits all



M12 Cable Splitter, 2 Straight M12 Female Connectors

TA04D3MIEJC04000 - 0.3 Meter

TA04E5MIEJC04000 - 1.5 Meter

TA0403MIE|C04000 - 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

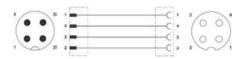
(Male View)



M12 Cable - Pin Out/Color Code

TC03XXMIEPA0371P

(Male to Female View)



M12 Cable - Pin Out/Color Code

TC03XXMIEPA0371P

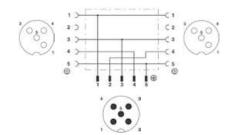
(Male to Female View)



M12 to M12 "Y" Splitter - Pin Out

TA0500000|C05000

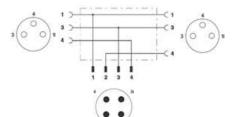
(Male to Female View)



M12 to M8 "Y" Splitter - Pin Out

TA0400000KC03000

(Male to Female View)



M12 Field Wireable (IDC) - Pin Out

TA04F2000000081E (SPEEDCON®)

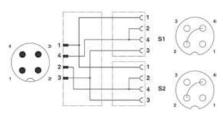
(Male View)



M12 to M12 Cable Splitter - Pin Out

TA04XXMIEJC04000

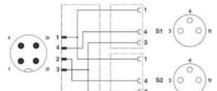
(Male to Female View)



M12 to M8 Cable Splitter - Pin Out

TA04XXMIEKC03000

(Male to Female View)



M8 Cable - Pin Out/Color Code

PC03XXMIEPA0371P

(Male to Female View)



NOTE:

XX denotes allowable length. See pages 101 & 102.

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.	4.70mm	4.70mm	PG7 4.0 to 6.0mm PG9 4.0 to 8.0mm
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 (-13 °F to 176 °F) (fixed instl.)	-25 °C to 80 °C (-13 °F to 176 °F) (fixed instl.)	-25 °C to 80 °C (-13 °F to 176 °F)
Conductor Gauge	22 AWG	22 AWG	22 AWG Min. 18 AWG Max.
Bend Radius	47mm	47mm	NA

Technical Data	I/O "Y" Splitter	I/O Cable Splitter	M8 Cables
Molded Body/Insert	TPU	TPU	TPU
Coupling Nut	Nickel Plated Zinc	Nickel Plated Zinc	Nickel Plated Zinc
Cable Jacket Material	NA	PUR	PUR
Cable O.D.	NA	4.40mm	1.17mm
Voltage Rating	60 Volts	60 Volts	60 Volts
Current Rating (Cond.)	3.0 Amps	3.0 Amps	4.0 Amps
Degree of Protection	IP67 (mated)	IP67 (mated)	IP67 (mated)
Operating Temperature	-25 °C to 90 °C (-13 °F to 194 °F)	-25 °C to 80 °C (-13 °F to 176 °F)	-25°C to 90°C (-13 °F to 194°F)
Conductor Gauge	NA	22 AWG or 24 AWG	24 AWG
Bend Radius	NA	44mm	44mm

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