NUMATICS[®]

580 Series

Fieldbus Electronics



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580 Fieldbus - Electronics Made Easy!

Innovative Graphic Display is used for easy commissioning, visual status & diagnostics.

Commissioning Capabilities

- Set network address (including IP & Subnet mask for Ethernet)
- Set baud rate
- Set brightness
- Set factory defaults

- **Visual Diagnostics**
- Shorted and open load detection
- Shorted sensor/cable detection
- Low & missing power detection
- Self-test activation
- Log of network errors

580 Fieldbus Communications Electronics

Why use Numatics Fieldbus communication electronics?

Modular Reality...

- No internal wiring simplifies assembly
- Power connector allows output power to be removed while inputs and communication are left active.
- IP65 protection
- 32 valve solenoids per manifold

Supported Protocols

- DeviceNet[™]
- Ethernet/IP
- PROFIBUS DP
- PROFINET
- EtherCAT®
- EtherNet/IP™ DLR





DeviceNetTM is a trademark of ODVA. ControlNet is a trademark of ControlNet International, Ltd. PROFIBUS and PROFINET are registered trademarks of Profibus International. EtherCAT is a registered trademark of Beckhoff Automation GmbH.



Graphic Display for configuration & diagnostics

DeviceNet™

DeviceNet[™] is an open bus fieldbus communication system developed by Allen-Bradley based on Controller Area Network (CAN) technology. The governing body for DeviceNet[™] is the Open DeviceNet[™] Vendors Association (ODVA). The ODVA controls the DeviceNet[™] specification and oversees product conformance testing.

Numatics' 580 nodes for DeviceNet[™] have an integrated graphic display.

They have been tested and approved for conformance by the ODVA.

More information about DeviceNet[™] and the ODVA can be obtained from the following website: www.odva.org



Description	Replacement Part Number
DeviceNet™ communications module (node)	P580AEDN1010A00

Technical Data

CE

Electrical Data	Voltage	Current
Node Power	24 VDC +/- 10%	0.050 Amps
BUS Power	11-25 VDC	0.050 Amps
Valves	24 VDC +/- 10%	4 Amps Maximum
Power Connector	A-Coded 4 Pin M12 (Male)	
Communication Connector	A-Coded 5 Pin M12 (Male)	
LEDs	Module Status and Network Status	
Operating Data		
Temperature Range (ambient)	-10° to 115° F (-23° to +46°C)	
Humidity	95% relative humidity, non-condensing	
Vibration / Shock	IEC 60068-2-27, IEC60068-2-6	
Moisture Protection	IP65 Certified	
Configuration Data		
Graphic Display	Display used for setting Node Address, Baud Rate, Fault / Idle	Actions, and all other system settings.
Maximum Valve-Solenoid Outputs	32	
Network Data		
Supported Baud Rates	125K Baud, 250K Baud, 500K Baud, with Auto-Baud	d detection
Supported Connection Type	Polled, Cyclic, Change of State (COS) and combinat	
Bus Connector	A-Coded 5 pin M12 (male)	
Diagnostics	Power, short, open load conditions are monitored	
Special Features	Supports Auto-Device Replacement (ADR) and fail-s	afe device settings

Weight

Ethernet/IP™

Ethernet used throughout the world to network millions of PCs has now evolved into a viable industrial network. Ethernet is an open architecture high-level communication network that meets the demands of today's industrial applications requiring high-speed (10/100 Mbit/s), high-throughput and flexibility. Additionally, Ethernet technology can integrate an on-board web server, which can make the node readily accessible to any standard web browser for configuration, testing and even retrieval of technical documentation.

Numatics' 580 nodes for Ethernet have an integrated graphic display.

The 580 Ethernet/IP nodes have been tested and approved for conformance by the ODVA.

More information about Ethernet/IP[™] and the ODVA can be obtained from the following website: www.odva.org.





Description	Replacement Part Number
Ethernet/IP™ communications module (node)	P580AEEP1010A00

Technical Data

Electrical Data	Voltage	Current
Node Power	24 VDC +/- 10%	0.070 Amps
Valves	24 VDC +/- 10%	4 Amps maximum
Power Connector	A-Coded 4 pin M12 (male)	
Communication Connector	D-coded 4 pin M12 (female)	
LEDs	Module Status, Network Status and Activity	//Link
Operating Data		
Temperature Range (ambient)	-10° to 115° F (-23° to +46°C)	
Humidity	95% relative humidity, non-condensing	
Vibration / Shock	IEC 60068-2-27, IEC60068-2-6	
Moisture Protection	IP65 Certified	
Configuration Data		
Graphic Display	Display used for setting IP Address, Su other system settings.	ubnet mask, Fault / Idle Actions, DHCP / BootP and all
Maximum Valve-Solenoid Outpu	its 32	
Network Data		
Supported Baud Rates	10 Mbit / 100 Mbit	
Bus Connector	D-coded 4 pin M12 (female)	
Diagnostics	Power, short, open load conditions	
Special Features	Integrated web server, fail-safe device settin	gs, HTTP, FTP, and UNICAST (for EtherNet/IP)

Weight

Ethernet Communication Module 336 g/10.8 oz.

PROFIBUS DP

PROFIBUS DP is a vendor-independent, open fieldbus protocol designed for communication between automation control systems and distributed I/O at the device level.

Numatics' 580 nodes for PROFIBUS DP have an integrated graphic display.

The 580 nodes for PROFIBUS DP have been designed and tested to conform to the PROFIBUS standard EN50170. Certification has been done by the PROFIBUS Interface Center (PIC) according to the guidelines determined by the PROFIBUS Trade Organization (PTO). The certification process ensures interoperability for all PROFIBUS devices.

More information regarding PROFIBUS can be obtained from the following website: www.profibus.com.

CE



Description	Replacement Part Number
PROFIBUS DP communications module (node)	P580AEPT1010A00

Technical Data

Electrical Data	Voltage	Current
Node Power	24 VDC +/- 10%	0.080 Amps
Valves	24 VDC +/- 10%	4 Amps Maximum
Power Connector	A-Coded 5 pin M12 (male)	
Communication Connector	Single reverse key (B-Coded) 5 pin M12 (1	male and 1 female)
LEDs	Module Status and Network Status	
Operating Data		
Temperature Range (ambient)	-10° to 115° F (-23° to +46°C)	
Humidity	95% relative humidity, non-condensing	
Vibration / Shock	IEC 60068-2-27, IEC60068-2-6	
Moisture Protection	IP65 Certified	
Configuration Data		
Graphic Display	Display used for setting Node Address	s, Fault / Idle Actions, and all other system settings.
Maximum Valve-Solenoid Outpu	uts 32	
Network Data		
Supported Baud Rates	Auto-Baud (From 9.6k to 12M Baud)	
Bus Connector	Single reverse key (B-coded) 5 pin M12 (1	male and 1 female)
Diagnostics	Power, short, open load conditions and m	odule health are monitored
Weight		

PROFIBUS DP Communication Module 342 g/11.0 oz.

numatics°

PROFINET

PROFINET is the innovative open standard for Industrial Ethernet, developed by Siemens and the Profibus User Organization (PNO). PROFINET complies to IEC 61158 and IEC 61784 standards. PROFINET products are certified by the PNO user organization, guaranteeing worldwide compatibility.

Numatics' 580 nodes for PROFINET IO (PROFINET RT) have an integrated graphic display.

PROFINET is based on Ethernet and uses TCP/IP and IT standards and complements them with specific protocols and mechanisms to achieve Real Time performance.

More information regarding PROFINET can be obtained from the following website: www.profibus.com.

CE



Description	Replacement Part Number
PROFINET communications module (node)	P580AEPN1010A00

Technical Data

Electrical Data	Voltage	Current
Node Power	24 VDC +/- 10%	0.110 Amps
Valves	24 VDC +/- 10%	4 Amps Maximum
Power Connector	A-Coded 5 pin M12 (male)	
Communication Connector	Two D-coded 4 pin M12 (female)	
LEDs	System Fault, Bus Fault, and Activity/Link	
Operating Data		
Temperature Range (ambient)	-10° to 115° F (-23° to +46° C)	
Humidity	95% relative humidity, non-condensing	
Vibration / Shock	IEC 60068-2-27, IEC60068-2-6	
Moisture Protection	IP65 Certified	
Configuration Data		
Graphic Display	Display used for setting IP Address, Subnet Mask, Fault /	Idle Actions, and all other system settings.
Maximum Valve-Solenoid Outputs	32	
Network Data		
Supported Baud Rates	10 Mbit / 100 Mbit	
Bus Connector	Two D-coded 4 pin M12 (Female)	
Diagnostics	Power, short, open load conditions and module health and	d configuration are monitored
Special Features	Integrated web server, Integrated 2 port switch, fail-safe de	evice settings

Weight

PROFINET Communication Module

342 g/11.0 oz.

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EtherCAT®

EtherCAT[®] is an open ethernet based fieldbus protocol developed by Beckhoff. EtherCAT[®] sets new standards for real-time performance and topology flexibility with short data update/cycle times and low communication jitter.

Numatics' 580 EtherCAT[®] node has an integrated graphic display for simplified commissioning and diagnostics.

The 580 nodes for EtherCAT[®] have been designed and tested to conform with EtherCAT[®] specifications set forth by the ETG.

More information regarding $\mathsf{EtherCAT}^{\circledast}$ can be obtained from the following website: www.ethercat.org.

CE



Description	Replacement Part Number
EtherCAT [®] communications module	P580AEEC1010A00

Technical Data

Electrical Data	Voltage	Current
Node Power	24 VDC +/- 10%	0.110 Amps
Valves	24 VDC +/- 10%	4 Amps Maximum
Power Connector	A-Coded 5 pin M12 (male)	
Communication Connector	Two D-coded 4 pin M12 (female)	
LEDs	Error, Run	
Operating Data		
Temperature Range	-10° to 115° F (-23° to +46° C)	
Humidity	95% relative humidity, non-condensing	
Vibration / Shock	IEC 60068-2-27, IEC 60068-2-6	
Moisture	IP65 Certified	
Configuration Data		
Graphic Display	Display used for Subnet Mask, Fault / Io	de Actions, and all other system settings.
Maximum Valve Solenoid Outputs 32		
Network Data		
Supported Baud Rates	10 Mbit / 100 Mbit	
Bus Connector	Two D-coded 4 pin M12 (female)	
Diagnostics	Power, short, open load conditions and n	nodule health and configuration are monitored
Special Features	Integrated web server, fail-safe device set	tings.

Weight

EtherCAT[®] communications module



EtherNet/IP[™] DLR

EtherNet/IP™ DLR used throughout the world to network millions of PCs has now evolved into a viable industry network. EtherNet/IP™ is an open architecture high-level communication network that meets the demands of today's industrial applications requiring high-speed (10/100 Mbit/s), high-throughput and flexibility. Additionally, EtherNet/IP™ technology can integrate an on-board web server, which can make the node readily accessible to any standard web browser for configuration, testing and even retrieval of technical documentation.

Numatics' 580 EtherNet/IP™ DLR (Device Level Ring) node with integrated display, has an embedded switch which allows the unit to be used in simplified networks with linear topology configurations (daisy chain). This technology alleviates the need for an external Ethernet switch device in a single subnet configuration. Additionally, the DLR compatibility allows the node to be used in a fault tolerant "ring" network, when using appropriate EtherNet/IP™ DLR scanners. DLR configuration allows communication recovery from a single point failure on the network ring (e.g. failed network connection or cable).



Description	Replacement Part Number
EtherNet™/IP DLR communications module (node)	P580AEED1010A00

80AEED1010A00

The 580 EtherNet/IP™ nodes have been tested and approved for conformance by the ODVA. More information about EtherNet[™] and the ODVA can be obtained from the following website: Open Device Vendors Association (ODVA) www.odva.org.

342 g/11.0 oz.



Technical Data

Electrical Data	Voltage	Current
Node Power	24 VDC +/- 10%	0.110 Amps
Valves	24 VDC +/- 10%	4 Amps Maximum
Power Connector	A-Coded 4 pin M12 (male)	
Communication Connector	Two D-coded 4 pin M12 (female)	
LEDs	Module Status, Network Status and Acti	vity / Link
Operating Data		
Temperature Range	-10° to 115° F (-23° to +46 C)	
Humidity	95% relative humidity, non-condensing	
Vibration / Shock	IEC 60068-2-27, IEC 60068-2-6	
Moisture	IP65 Certified	
Configuration Data		
Graphic Display	Display used for setting IP address	, Subnet Mask, Fault / Idle Actions, and all other system settings.
Maximum Valve Solenoid Outp	uts 32	
Network Data		
Supported Baud Rates	10 Mbit / 100 Mbit	
Bus Connector	Two D-coded 4 pin M12 (female)	
Diagnostics	Power, short, open load conditions and r	nodule health and configuration are monitored
Special Features	Embedded two port switch, Device Leve settings, integrated web server, HTTP, TF	I Ring (DLR) compatibility, Linear network topology, fail-safe device TP, UNICAST

Weiaht

EtherCAT[®] communications module

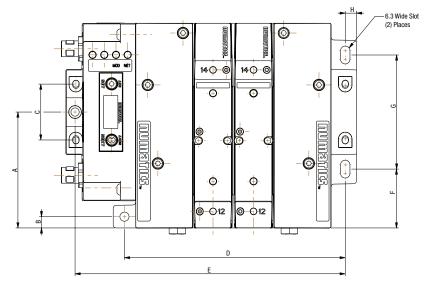


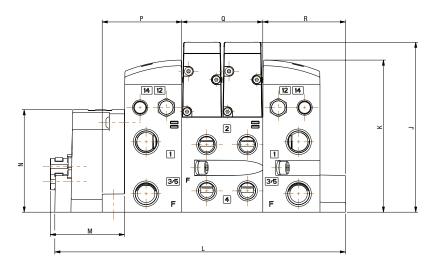
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Dimensions: mm (Inches)

Dimensional Drawing - 580 Fieldbus Manifold Assembly

503 Series Valve Manifold Assembly with 580 Electronics

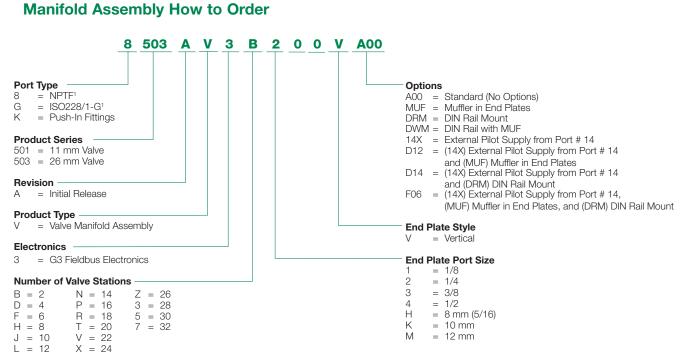




Α	В	C	D	E	F	G	H	J	K	L	М	N	Р	Q	R
	7.5 (0.295)												53 (2.087)		

* - For valve manifold dimensions refer to Valve Series product catalogs.

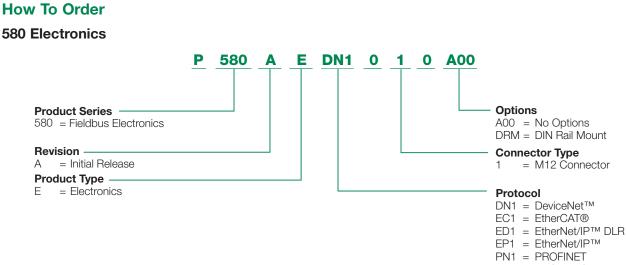




¹ Port Type '8' + 'G' only available in Port Size 3/8

² Horizontal end plates only available with Electroincs option 'O' - No Electronics

*NOTE: 501 Valve Series Available with 4, 8, 12, 16, 20, 24, 28 and 32 Stations Only

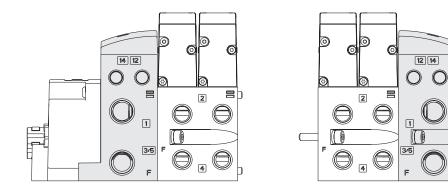


580 SERIES

NUMATICS[®]

Ordering Valve Manifold Assemblies with 580 Electronics

For valve series



Shaded components are described by the manifold assembly number (see page 10). The communication module is described by the Electronic Interface model number designation (see page 10).

Each valve station is listed in sequential order from left to right when facing the port side of the manifold as shown.

NOTE:

1. A total of 32 solenoid outputs are available. Either 32 single solenoid valves or 16 double solenoid valves or any combination of singles and doubles not to exceed 32 outputs can be specified.

Example Order - 503 Shown

Assembly Kit Valve Station #1 Valve Station #2 Valve Station #3 Valve Station #4 Mounting # 2 Valve Station #5 Valve Station #6 Mounting #3 Valve Station #7 Valve Station #8 Mounting #4 Electronics Assembled 8503AV8H100VMUF R503A2B40MA00F1 8503AMM22MA00F0 R503A2B40MA00F1 8503A2B40MA00F1 8503AMM22MA00F0 R503A2B40MA00F1 8503AMM22MA00F0 R503A2B40MA00F1 R503A2B40MA00F1 8503AMM22MA00F1 8503AMM22MA00F1 8503AMM22MA00F1

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WH

ΒU

ВK

BN

WН

ΒK

BU GN/YE

M12 A-Coded Cables



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

TC0410MAE000000 – 10 Meter M12 Straight 5 Pin Female Single Ended Cable, Euro Color Code

TC0510MAE0000000 – 10 Meter M12 90° 4 Pin Female Single Ended

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

M12 90° 5 Pin Female Single Ended Cable, Euro Color Code TD0505MAE0000000 – 5 Meter

TD0510MAE0000000 - 10 Meter

TC0505MAE000000 - 5 Meter

M12 A-Coded Field Wireable Connectors



M12 Straight 4 Pin Female Field Wireable Connector
TC04F1000000000 – PG 7 Cable Gland
TC04F2000000000 – PG 9 Cable Gland

M12 Straight 5 Pin Female Field Wireable Connector TC05F10000000000 – PG 7 Cable Gland TC05F20000000000 – PG 9 Cable Gland



M12 90° 4 Pin Female Field Wireable Connector TD04F1000000000 – PG 7 Cable Gland TD04F20000000000 – PG 9 Cable Gland

M 12 90° 5 Pin Female Field Wireable Connector TD05F10000000000 – PG 7 Cable Gland TD05F20000000000 – PG 9 Cable Gland

Technical Data Field Wireable Pin Out / Color Code Cable Molded Body / Insert PVC / Polyamide Polyamide Female View Coupling Nut Nickel Copper Alloy Cable Jacket Material PVC NA Cable O.D. 1 7.4mm NA O C 2 125 V Max. @ 105° C Voltage Rating 3 0 0 4 Current Rating 4.0 Amps Degree of Protection IP65 (mated) **Operating Temperature** -25° C - 85° C Conductor Gauge 18 AWG NA 2 O5 O ,°O Bend Radius 74mm NA 4 Õ Maximum Wire AWG 18 AWG NA 3 Wire Connection NA Screw Terminal PG 7 Range NA 4-6 mm

6-8 mm

NA

PG 9 Range

DeviceNet[™] Communication Cables & Connectors

580 SERIES

M12 A-Coded Cables



M12 A-Coded Field Wireable Connectors



M12 90° 5 Pin Male & Female Field Wireable Connector – Spring Cage TB05F200000071V – PG 9 Cable Gland – Spring Cage Male TD05F2000000071V – PG 9 Cable Gland – Spring Cage Female

M12 Straight 5 Pin Male & Female Field Wireable Connector – Spring Cage TA05F2000000071V – PG 9 Cable Gland – Spring Cage Male TC05F2000000071V – PG 9 Cable Gland – Spring Cage Female

Technical Data	Cable	M12 Field Wireable	"Т"
Molded Body / Insert	PVC / Polyamide	Nickel Plated Zinc / TPU	TPU / TPU GF
Coupling Nut	Nickel Plated Brass	Nickel Plated Brass	Nickel Plated Zinc
Cable Jacket Material	PVC	NA	NA
Cable O.D.	7 mm	4.0 to 8 mm	NA
Voltage Rating	300 Volts	60 Volts	60 Volts
Current Rating	4.0 Amps	4.0 Amps	4.0 Amps
Degree of Protection	IP65 (mated)	IP 65 (mated)	IP 65 (mated)
Operating Tempera- ture	-40° C - 80° C	-40° C - 85° C	-25° C - 90° C
Conductor Gauge	24 AWG (power & data)	26-20 AWG	NA
Minimum Bend Radius	74 mm	NA	NA
Wire Connection	NA	Spring Cage	NA

EtherNet/IP™ Communication Cables & Connectors

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M12 D-Coded Cables



M12 Straight 4 Pin Male D-Coded Single Ended Cable

QA0405MK0000000 – 5 Meter QA0410MK0000000 – 10 Meter

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

QA0405MK0VA04000 – 5 Meter QA0410MK0VA04000 – 10 Meter

M12 90° 4 Pin Male D-Coded Single Ended Cable

QB0405MK0000000 – 5 Meter QB0410MK0000000 – 10 Meter

M12 Straight 4 Pin Male D-Coded Double Ended Cable

QA0405MK0QA04000 – 5 Meter QA0410MK0QA04000 – 10 Meter



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

QA04D2MK0VC04000 - 0.2 Meter

M12 D-Coded Field Wireable Connectors



M12 90° 4 Pin Male D-Coded Field Wireable Connector w/IDC

QB04F200000071N - PG 9 Cable Gland - IDC



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

QA04F200000071N - PG 9 Cable Gland - IDC

Technical Data	Cable	M12 Field Wireable
Molded Body / Insert	PUR / Polyamide	Nickel Plated Zinc / PA 66
Coupling Nut	Nickel Plated Brass	Nickel Plated Brass
Cable Jacket Material	PUR	NA
Cable O.D.	5.6 mm	4.0 to 8 mm
Voltage Rating (Nominal)	300 Volts	60 Volts
Current Rating	2.0 Amps	1.75 Amps
Degree of Protection	IP65 (mated)	IP 65 (mated)
Operating Temperature	-40° C - 75° C	-40° C - 85° C
Conductor Gauge	24 AWG	IDC 26-22 AWG
Bend Radius	61mm	NA
Wire Connection	NA	IDC

PROFINET Communication Cables & Connectors

580 SERIES

M12 D-Coded Cables



M12 D-Coded Field Wireable Connectors



M12 90° 4 Pin Male D-Coded Field Wireable Connector w/IDC

QB04F200R000071N - PG 9 Cable Gland - IDC



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

QA04F200R000071N - PG 9 Cable Gland - IDC

Technical Data	Cable	M12 Field Wireable
Molded Body / Insert	PUR / PUR or PE	Nickel Plated Zinc / PA 66
Coupling Nut	Nickel Plated Zinc and Brass	Nickel Plated Brass
Cable Jacket Material	PVC	NA
Cable O.D.	6.5mm / 7.4mm	4.0 to 8.0 mm
Voltage Rating (Nominal)	42 Volts	60 Volts
Current Rating	1.5 Amps	1.75 Amps
Degree of Protection	IP65 (mated)	IP 65 (mated)
Operating Temperature	-25° C - 60°	-40° C - 85° C
Conductor Gauge	24 & 22 AWG	26-22 AWG
Bend Radius	19.5 mm	NA
Wire Connection	NA	IDC



PROFIBUS DP Communication Cables & Connectors



M12 B-Coded (Reverse Key) Cables



M12 Straight 5 Pin Male & Female Single Ended Cables RA0505MHP0000000 – 5 Meter – MALE RA0510MHP0000000 – 10 Meter – MALE RC0505MHP0000000 – 5 Meter – FEMALE RC0510MHP0000000 – 10 Meter – FEMALE

M12 Straight 5 Pin Male – to – Female Double Ended Cables RC0505MHPRA05000 – 5 Meter RC0510MHPRA05000 – 10 Meter

M12 90° 5 Pin Male & Female Single Ended Cable RB0505MHP0000000 – 5 Meter – MALE RB0510MHP0000000 – 10 Meter – MALE RD0505MHP0000000 – 5 Meter – FEMALE

RD0510MHP0000000 - 10 Meter - FEMALE

M12 B-Coded (Reverse Key) Field Wireable Connectors



M12 90° 5 Pin Male & Female Field Wireable Connectors, w/IDC RB05F200P000071V – PG9 Cable Gland – IDC MALE RD05F200P000071V – PG9 Cable Gland – IDC FEMALE

M12 Straight 5 Pin Male & Female Field Wireable Connectors RA05F200P0000000 – PG7 Cable Gland – MALE RC05F200P0000000 – PG7 Cable Gland – FEMALE



M12 Straight 5 Pin Terminating Resistor RA05TR000000000 – MALE

M12 Bus "T"

RA050000PRT05000

Technical Data	Cable	Field Wireable	۳Tn
Molded Body	PUR	Nickel Plated Zinc / Brass	Aluminum
Insert	Polyamide	TPU/PVC	Nylon
Coupling Nut	Nickel Plated Brass	Nickel Plated Brass / Stainless Steel	Nickel Plated Brass
Cable Jacket Material	PVC	NA	NA
Cable O.D.	8.5 mm	4.0 to 8.0 mm / 3.0 to 6.5 mm	NA
Voltage Rating	300 Volts	60 Volts	250 Volts
Current Rating	4.0 Amps	4.0 Amps	4.0 Amps
Degree of Protection	IP65 (mated)	IP 65 (mated)	IP 65 (mated)
Operating Tempera- ture	-40° C - 80° C	-40° C - 85° C	-40° C - 80° C
Conductor Gauge	22 AWG	26-20 AWG / 24-18 AWG	NA
Minimum Bend Radius	74 mm	NA	NA
Wire Connection	NA	IDC / Screw Terminal	NA

EtherCAT[®] Communication Cables & Connectors

580 SERIES

M12 D-Coded Cables



M12 D-Coded Field Wireable Connectors



M12 90° 4 Pin Male D-Coded Field Wireable Connector w/IDC QB04F200R000071N – PG 9 Cable Gland – IDC



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

QA04F200R000071N - PG 9 Cable Gland - IDC

Technical Data	Cable	M12 Field Wireable
Molded Body / Insert	PVC / PE	Nickel Plated Zinc / PA 66
Coupling Nut	Nickel Plated Zinc	Nickel Plated Brass
Cable Jacket Material	PUR	NA
Cable O.D.	6.5 mm	4.0 to 8.0 mm
Voltage Rating (Nominal)	300 Volts	60 Volts
Current Rating	2.0 Amps	1.75 Amps
Degree of Protection	IP65 (mated)	IP 65 (mated)
Operating Temperature	-5° C - 50° C	-40° C - 85° C
Conductor Gauge	22 AWG	26-22 AWG
Bend Radius	46 mm	NA
Wire Connection	NA	IDC