

# ENTRELEC M8/M12/RJ45 CATALOG

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## ENTRELEC M8/M12/RJ45 CATALOG

### ENTRELEC M8/M12

Connector System for machine industrial automation and control applications provides a solution for the increasing needs of sensor connections that safely and reliably ensures the communication in industrial environments. This connector system also finds applications outside of its traditional industries where a compact reliable connection system with environmental protection is required. ENTRELEC solution includes an extensive connector range of PCB headers, cable assemblies and I/O boxes, and provides users with an interface that supports higher bandwidth needs – meeting the requirements of up to 10Gb/s.

ENTRELEC also offers shielded and un-shielded Cat5e and Cat6A cable assembly variants. A predefined offering in length of 1, 3, 5 and 10 meters covers a vast range of customer needs on the market. For rewiring on site a wide range of field serviceable connectors are provided, allowing versatile systems to be quickly and easily established. Additional styles are available on request including alternative mounting arrangements for panel mount connectors and double ended cable assemblies.



**ENTRELEC'S ELECTRICAL SOLUTIONS PRODUCTS PLAY A VITAL ROLE IN FACTORY AUTOMATION.**

ENTRELEC'S Electrical Solutions products are widespread throughout today's networked factories, and play a critical role in driving the efficiency of many manufacturing processes. Used extensively in material handling equipment, our industrial communications solutions are also found throughout the automotive and food and beverage industries, as well as in the many manufacturing applications of industrial robots. With the development of smaller industrial ethernet products, ENTRELEC solutions are also ideal for vision systems, common in security mail sortation devices.

## ENTRELEC M8/M12/RJ45 Catalog

### MACHINERY



### FACTORY AUTOMATION



ENTRELEC includes a broad range of straight, angled, LED and multi-position field installable and board connectors that are easily intermateable. Next to cable assemblies for serial and bus communication, ENTRELEC also offers industrial ethernet patch cables with overmolded X-coded M12 connectors that are available for future proof applications with up to 10 Gb/s data transmission. Customized cable assemblies offer a solution for your specific needs in different lengths, temperatures or flexibility. When communication simply needs to work in industrial environments, ENTRELEC M8/M12 system and complete ENTRELEC's electrical solutions portfolio offer proven reliability that meet industry standards.

Whether it is for controllers and sensors or robotics and molding machines, the M8/M12 connector system offers you a solution that is time-saving, error-decreased and without the use of tools.



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## M8/M12 connectors

ENTRELEC M8/M12 connectors continues to fill the ongoing needs for sensor connection in industrial machinery and factory automation. A connection standard for many years, these products also find applications outside of their traditional industries where a compact reliable connection system with environmental protection is required. ENTRELEC M8/M12 connector portfolio includes A, B, D, S, T, and X-coded (up to 10 Gb/s) versions to serve various customer needs. The connectors are also available in shielded and unshielded versions, to support Gigabit Ethernet applications.

## M8/M12 - THE CODINGS

**A-coding:** Actuator-sensor plug connections for DeviceNet, IO link and Profibus



**B-coding:** Fieldbus connections for Profibus and Interbus



**D-coding:** Industrial Ethernet, Profinet, Ethernet/IP and EtherCat



**S-coding:** Motor, Frequency-convertors, motor operated switches, PSUs for Power, 620 V, 12 A



**T-coding:** Fieldbus comp, passive distribution boxes, motors, PSUs for Power, 63 V, 12 A



**X-coding:** Cat6A, high-speed 10Gbit rugged industrial Ethernet applications IEC 61076-2-109



Ambient temperature for M8:

-40 °C to 85 °C

Ambient temperature for M12:

-40 °C to 85 °C

Current rating:

4 and 5 pins: 4 A per pin

8 and 12 pins: 2 A per pin

IP rating: IP67/IP68

As specifications vary for different parts, please refer to your ENTRELEC contact for detailed information.

Application Specifications for M8 M12 Connectors and Cable Assemblies: 114-32127, 114-137008, 114-137144

Product Specifications:

Connectors: 108-3641, 108-19483,

108-106140

X-coded: 108-137008



Size	Pins	Rated	Maximum current per pin	Polution grade
M8	3	60V	4 A	3
M8	4	30V	4 A	3
M12	3	250V	4 A	3
M12	4	250V	4 A	3
M12	5	125V	4 A	3
M12	8	60V	2 A	3
M12	12	30V	2 A	3

# ENTRELEC M8/M12/RJ45 CATALOG

## M8 STRAIGHT FIELD INSTALLABLE

### Male Series



#### ENTRELEC Part Number

##### M8 Male Screw Connection, Straight, Unshielded

3-Pole	—	<a href="#">1SET310005R0000</a>
4-Pole	—	<a href="#">1SET310006R0000</a>

##### M8 Male Screw Connection, Straight, Shielded

3-Pole	—	<a href="#">1SET310007R0000</a>
4-Pole	—	<a href="#">1SET310008R0000</a>

### Female Series



#### ENTRELEC Part Number

##### M8 Female Screw Connection, Straight, Unshielded

3-Pole	—	<a href="#">1SET310001R0000</a>
4-Pole	—	<a href="#">1SET310002R0000</a>

##### M8 Female Screw Connection, Straight, Shielded

3-Pole	—	<a href="#">1SET310003R0000</a>
4-Pole	—	<a href="#">1SET310004R0000</a>

## M8 ANGLED FIELD INSTALLABLE

### Male Series



#### ENTRELEC Part Number

##### M8 Male Right Angled, Unshielded

3-Pole	—	<a href="#">1SET310013R0000</a>
4-Pole	—	<a href="#">1SET310014R0000</a>

##### M8 Male Right Angled, Shielded

3-Pole	—	<a href="#">1SET310015R0000</a>
4-Pole	—	<a href="#">1SET310016R0000</a>

### Female Series



#### ENTRELEC Part Number

##### M8 Female Right Angled, Unshielded

3-Pole	—	<a href="#">1SET310009R0000</a>
4-Pole	—	<a href="#">1SET310010R0000</a>

##### M8 Female Right Angled, Shielded

3-Pole	—	<a href="#">1SET310003R0000</a>
4-Pole	—	<a href="#">1SET310004R0000</a>



# ENTRELEC M8/M12/RJ45 CATALOG

## M8 PANEL MOUNT 200MM WIRE

### Male Series



#### ENTRELEC Part Number

##### M8, Male, Rear Mount, 200mm Wire, Straight

3-Pole	—	<a href="#">1SET310125R0000</a>
4-Pole	—	<a href="#">1SET310126R0000</a>

##### M8, Male, Front Mount, 200mm Wire, Straight

3-Pole	—	<a href="#">1SET310125R0000</a>
4-Pole	—	<a href="#">1SET310126R0000</a>

##### M8, Male, Panel Mount Front, Straight

3-Pole	—	<a href="#">1SET310129R0000</a>
4-Pole	—	<a href="#">1SET310130R0000</a>

### Female Series



#### ENTRELEC Part Number

##### M8, Female, Rear Mount, 200mm Wire, Straight

3-Pole	—	<a href="#">1SET310127R0000</a>
4-Pole	—	<a href="#">1SET310128R0000</a>

##### M8, Female, Front Mount, 200mm Wire, Straight

3-Pole	—	<a href="#">1SET310131R0000</a>
4-Pole	—	<a href="#">1SET310132R0000</a>

## M12 STRAIGHT FIELD INSTALLABLE A, B, D CODED

### Male Series



#### ENTRELEC Part Number

##### A coding - M12 Male Screw Connection, Straight, Unshielded

4-Pole	PG7	<a href="#">1SET310309R0000</a>
—	PG9	<a href="#">1SET310319R0000</a>
5-Pole	PG7	<a href="#">1SET310311R0000</a>
—	PG9	<a href="#">1SET310321R0000</a>
8-Pole	PG9	<a href="#">1SET310323R0000</a>



#### ENTRELEC Part Number

##### D coding - M12 Male Screw Connection, Straight, Shielded

4-Pole	PG7	<a href="#">1SET310405R0000</a>
—	PG9	<a href="#">1SET310413R0000</a>

# ENTRELEC M8/M12/RJ45 CATALOG

## M12 STRAIGHT FIELD INSTALLABLE A, B, D CODED

### Female Series



#### ENTRELEC Part Number

A coding - M12 Female Screw Connection, Straight, Unshielded

4-Pole	PG7	<a href="#">1SET310205R0000</a>
—	PG9	<a href="#">1SET310215R0000</a>
5-Pole	PG7	<a href="#">1SET310207R0000</a>
—	PG9	<a href="#">1SET310217R0000</a>
8-Pole	PG9	<a href="#">1SET310219R0000</a>



#### ENTRELEC Part Number

A coding - M12 Female Screw Connection, Straight, Shielded

4-Pole	PG7	<a href="#">1SET310225R0000</a>
—	PG9	<a href="#">1SET310235R0000</a>
5-Pole	PG7	<a href="#">1SET310227R0000</a>
—	PG9	<a href="#">1SET310237R0000</a>
8-Pole	PG9	<a href="#">1SET310239R0000</a>

D coding - M12 Female Screw Connection, Straight, Shielded

4-Pole	PG7	<a href="#">1SET310293R0000</a>
—	PG9	<a href="#">1SET310301R0000</a>

## M12 ANGLED FIELD INSTALLABLE A, B, D CODED

### Male Series



Temperature Range: -25 to +85 ENTRELEC Part Number

A coding - M12 Male Screw Connection, Angled, Unshielded

4-Pole	PG7	<a href="#">1SET310525R0000</a>
—	PG9	<a href="#">1SET310535R0000</a>
5-Pole	PG7	<a href="#">1SET310527R0000</a>
—	PG9	<a href="#">1SET310537R0000</a>
8-Pole	PG9	<a href="#">1SET310539R0000</a>



#### ENTRELEC Part Number

D coding - M12 Male Screw Connection, Angled, Shielded

4-Pole	PG7	<a href="#">1SET310613R0000</a>
—	PG9	<a href="#">1SET310621R0000</a>

# ENTRELEC M8/M12/RJ45 CATALOG

## M12 ANGLED FIELD INSTALLABLE A, B, D CODED

### Female Series



ENTRELEC Part Number

A coding - M12 Female Screw Connection, Angled, Unshielded

4-Pole	PG7	<a href="#">1SET310421R0000</a>
—	PG9	<a href="#">1SET310431R0000</a>
5-Pole	PG7	<a href="#">1SET310423R0000</a>
—	PG9	<a href="#">1SET310433R0000</a>
8-Pole	PG9	<a href="#">1SET310435R0000</a>



ENTRELEC Part Number

A coding - M12 Female Screw Connection, Angled, Shielded

4-Pole	PG7	<a href="#">1SET310441R0000</a>
—	PG9	<a href="#">1SET310451R0000</a>
5-Pole	PG7	<a href="#">1SET310443R0000</a>
—	PG9	<a href="#">1SET310453R0000</a>
8-Pole	PG9	<a href="#">1SET310455R0000</a>

D coding - M12 Female Screw Connection, Angled, Shielded

4-Pole	PG7	<a href="#">1SET310509R0000</a>
—	PG9	<a href="#">1SET310517R0000</a>

## M12 PANEL MOUNT R/A PCB

### Female Series



ENTRELEC Part Number

B coding - M12, Female, Rear Mount, PCB, R/A, Shielded

5-Pole	—	<a href="#">1SET311027R0000</a>
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# ENTRELEC M8/M12/RJ45 CATALOG

## M12 PANEL MOUNT STRAIGHT PCB Ñ REAR MOUNTING

### Male Series



ENTRELEC Part Number

B coding - M12 Male, Rear Mounting, Straight

5-Pole	—	<a href="#">1SET310899R0000</a>
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### Female Series



ENTRELEC Part Number

B coding - M12 Female, Rear Mounting, Straight

5-Pole	—	<a href="#">1SET310936R0000</a>
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## M12 PANEL MOUNT SOLDER WIRE Ñ REAR MOUNTING

### Male Series



ENTRELEC Part Number

A-coding - M12 Male, Rear Mounting, Solder Wire

8-Pole	—	<a href="#">1SET310809R0000</a>
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### Female Series



ENTRELEC Part Number

A-coding - M12 Female, Rear Mounting, Solder Wire

8-Pole	—	<a href="#">1SET310836R0000</a>
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# ENTRELEC M8/M12/RJ45 CATALOG

## M12 PANEL MOUNT SOLDER WIRE Ñ FRONT MOUNTING

### Male Series



#### ENTRELEC Part Number

A-coding - M12 Male, Front Mounting, Solder Wire		
8-Pole	—	<a href="#">1SET310859R0000</a>

### Female Series



#### ENTRELEC Part Number

A-coding - M12 Female, Front Mounting, Solder Wire		
8-Pole	—	<a href="#">1SET310873R0000</a>

## M12 PANEL MOUNT 200MM WIRE Ñ FRONT MOUNTING

### Male Series



#### ENTRELEC Part Number

A coding - M12 Male, Front Mounting, 200mm wire		
4-Pole	—	<a href="#">1SET311165R0000</a>
5-Pole	—	<a href="#">1SET311167R0000</a>

A-coding - M12 Male, Front Mounting, 200mm wire		
8-Pole	—	<a href="#">1SET311185R0000</a>
12-Pole	—	<a href="#">1SET311187R0000</a>

### Female Series



#### ENTRELEC Part Number

A coding - M12 Female, Front Mounting, 200mm wire		
4-Pole	—	<a href="#">1SET311193R0000</a>
5-Pole	—	<a href="#">1SET311195R0000</a>

D coding - M12 Female, Front Mounting, 200mm wire		
4-Pole	—	<a href="#">1SET311209R0000</a>

A-coding - M12 Female, Front Mounting, 200mm wire		
8-Pole	—	<a href="#">1SET311215R0000</a>
12-Pole	—	<a href="#">1SET311213R0000</a>



# ENTRELEC M8/M12/RJ45 CATALOG

## M12 PANEL MOUNT 200MM WIRE Ñ REAR MOUNTING

### Male Series



#### ENTRELEC Part Number

A coding - M12 Male, Rear Mounting, 200mm wire		
4-Pole	—	<a href="#">1SET311053R0000</a>
5-Pole	—	<a href="#">1SET311057R0000</a>

B coding - M12 Male, Rear Mounting, 200mm wire		
5-Pole	—	<a href="#">1SET311073R0000</a>

A-coding - M12 Male, Rear Mounting, 200mm wire		
8-Pole	—	<a href="#">1SET311093R0000</a>
12-Pole	—	<a href="#">1SET311097R0000</a>

### Female Series



#### ENTRELEC Part Number

A coding - M12 Female, Rear Mounting, 200mm wire		
4-Pole	—	<a href="#">1SET311110R0000</a>
5-Pole	—	<a href="#">1SET311115R0000</a>

B coding - M12 Female, Rear Mounting, 200mm wire		
5-Pole	—	<a href="#">1SET311131R0000</a>

D coding - M12 Female, Rear Mounting, 200mm wire		
4-Pole	—	<a href="#">1SET311143R0000</a>

A-coding - M12 Female, Rear Mounting, 200mm wire		
8-Pole	—	<a href="#">1SET311185R0000</a>
12-Pole	—	<a href="#">1SET311187R0000</a>

# ENTRELEC M8/M12/RJ45 CATALOG

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## M12 X-CODED

### M12 X-Coded PCB Connector



Description	ENTRELEC Part Number
<b>M12 X-Coded PCB Connector</b>	
Female Panel Mount Solder PCB Connector	<a href="#">1SET311217R0000</a>
Female Panel Mount Solder Wire	<a href="#">1SET311218R0000</a>

### SENSOR/ACTUATOR M8/M12 A-CODE

M8/M12 A-coded cable assemblies are designed for applications such as sensors, robotics & production machinery & equipment, where extreme temperatures and harsh environments are likely to be encountered. These cable assemblies are also ideal for non-industrial applications where compact, robust and reliable connections are required to withstand rigorous environmental elements.



ENTRELEC provides a full solution with shielded and non-shielded cable assembly options that customers easily help connect to advanced industrial networks. The new product line meets the IP67 rating for protection against dust and water ingress; it also provides protection against electromagnetic radiation, chemicals and mechanical stress commonly found in industrial environments.

Designed as industry standard solutions, these quick-turn cable assemblies help to reduce unnecessary downtime and help maintain continuous operations in critical conditions. ENTRELEC cross-industry expertise allows it to offer customized solutions through a broad cable assembly portfolio that includes connectivity to many industry standards serving various customer needs.

ENTRELEC M8/M12 cable assemblies are available as single-ended or double-ended, in straight and angled versions, with shielded and un-shielded variants. Various cable types are offered depending on the application requirements. Cable sheathing is in PVC or PUR. The predefined offering in length of 0.5, 1, 1.5, 3, 5, 7 and 10 meters covers a vast range of customer needs on the market. Customized cable assemblies in different lengths provide a solution for specific needs. All can be used in combination with ENTRELEC male/female connectors and I/O Modules.

#### KEY FEATURES

- IP67 rated: dust and water resistant
- Overmolded PVC or PUR cable assemblies/ Shielded & non shielded versions
- Key options: A coded
- M12 Positions: 2, 3, 4, 5 & 8 poles
- M8 Positions: 3 & 4 poles
- M8 & M12 single ended cable assemblies
- M8 & M12 double ended cable assemblies
- M8 to M12 cable assemblies
- Cable length options: 0.5 m, 1 m, 1.5 m, 3 m, 5 m, 7 m, and 10 m

#### BENEFITS

- M12 Cable Assemblies are IP67 sealed and tested in TE's factory to significantly reduce the possibility of false wiring & to ensure robust connection
- Reduce downtime in harsh environments with reliable industry standard solution that includes quick turn, prototype cable assemblies.
- Full solution offering including customized and general market cable assemblies enables 1-stopshopping and reduced TCO

## APPLICATIONS

- Industrial communications
- Industrial machinery
- Industrial automation
- Robotics
- Machine tools
- Semiconductor manufacturing
- Manufacturing of solenoid and sensor valves
- Process control systems
- Vision systems
- Electronics manufacturing

## MECHANICAL

- Durability: up to 100 cycles
- Degree of protection: IP67
- Temperature Ratings:
  - PVC:
    - Fixed: -40°C to +80°C
    - Flexible: -25°C to +80°C
  - PUR:
    - Fixed: -10°C to +80°C
    - Flexible: -5°C to +80°C

## ELECTRICAL

- Voltage rating
  - M12:
    - 250V ( $\leq 4$  way)
    - 60V (5 way)
    - 30V ( $> 5$  way)
  - M8:
    - 60V (3 way)
    - 30V (4 & 5 pos)
- Current rating
  - M12 A coding
    - 2 - 5 ways = 4A
    - 6 - 8 ways = 2 A
  - M8: 3A
- Insulation resistance: 100M $\Omega$  Min

## MATERIALS

- Contact: Brass, Gold flash plating
- Nut: Brass, Nickel plating
- O-ring: Silicon rubber
- Spring: Stainless steel
- Over-molding: TPU
- Housing: PA
- M12 Cable: 22 AWG, 2/3/4/5 core, with or without foil, drain, braid shield RoHS; cable jacket material: PVC or PUR
- M12 Cable: 24 AWG, 8 core, with or without foil, drain, braid shield RoHS; cable jacket material: PVC or PUR
- M8 Cable: 24 AWG, 3/4 core, with or without foil, drain, braid shield RoHS; cable jacket material: PVC or PUR


## STANDARDS AND APPLICATIONS

- Product specification: 108-106140
- Application specification: 114-137144
- UL Standard: UL2238
- IEC 61076-2-101: Detail specification for M12 connectors with screw-locking
- IEC 61076-2-104: Detail specification with M8 screw-locking or snap-locking
- IEC 60512: Electromechanical components for electronic equipment; basic testing procedure and measuring methods
- IEC-60529: Degree of protection provided by enclosures (IP Code)


\* This wire diagram is applicable to all M8 cable assemblies listed in this flyer.

## ENTRELEC M8/M12/RJ45 CATALOG

### M8 MALE STR SINGLE ENDED CORDSET

EWS PN	Part Description	Product Image
<a href="#">1SET312416R0000</a>	M8-MS-3CON-PUR-1.0SH	
<a href="#">1SET312418R0000</a>	M8-MS-3CON-PUR-3.0SH	
<a href="#">1SET312419R0000</a>	M8-MS-3CON-PUR-5.0SH	
<a href="#">1SET311416R0000</a>	M8-MS-3CON-PUR-1.0	
<a href="#">1SET311418R0000</a>	M8-MS-3CON-PUR-3.0	
<a href="#">1SET311419R0000</a>	M8-MS-3CON-PUR-5.0	
<a href="#">1SET311423R0000</a>	M8-MS-4CON-PUR-1.0	
<a href="#">1SET311425R0000</a>	M8-MS-4CON-PUR-3.0	
<a href="#">1SET311426R0000</a>	M8-MS-4CON-PUR-5.0	
<a href="#">1SET311427R0000</a>	M8-MS-4CON-PUR-7.0	
<a href="#">1SET311428R0000</a>	M8-MS-4CON-PUR-10.0	
<a href="#">1SET312423R0000</a>	M8-MS-4CON-PUR-1.0SH	
<a href="#">1SET312425R0000</a>	M8-MS-4CON-PUR-3.0SH	
<a href="#">1SET312426R0000</a>	M8-MS-4CON-PUR-5.0SH	


### M8 MALE R/A SINGLE ENDED CORDSET

EWS PN	Part Description	Product Image
<a href="#">1SET312444R0000</a>	M8-MR-3CON-PUR-1.0SH	
<a href="#">1SET312446R0000</a>	M8-MR-3CON-PUR-3.0SH	
<a href="#">1SET312447R0000</a>	M8-MR-3CON-PUR-5.0SH	
<a href="#">1SET311444R0000</a>	M8-MR-3CON-PUR-1.0	
<a href="#">1SET311446R0000</a>	M8-MR-3CON-PUR-3.0	
<a href="#">1SET311447R0000</a>	M8-MR-3CON-PUR-5.0	
<a href="#">1SET311451R0000</a>	M8-MR-4CON-PUR-1.0	
<a href="#">1SET311453R0000</a>	M8-MR-4CON-PUR-3.0	
<a href="#">1SET311454R0000</a>	M8-MR-4CON-PUR-5.0	
<a href="#">1SET312451R0000</a>	M8-MR-4CON-PUR-1.0SH	
<a href="#">1SET312453R0000</a>	M8-MR-4CON-PUR-3.0SH	
<a href="#">1SET312454R0000</a>	M8-MR-4CON-PUR-5.0SH	




## ENTRELEC M8/M12/RJ45 CATALOG

### M8 FEMALE STR SINGLE ENDED CORDSET


EWS PN	Part Description	Product Image
<a href="#">1SET312472R0000</a>	M8-FS-3CON-PUR-1.0SH	
<a href="#">1SET312474R0000</a>	M8-FS-3CON-PUR-3.0SH	
<a href="#">1SET312475R0000</a>	M8-FS-3CON-PUR-5.0SH	
<a href="#">1SET311472R0000</a>	M8-FS-3CON-PUR-1.0	
<a href="#">1SET311474R0000</a>	M8-FS-3CON-PUR-3.0	
<a href="#">1SET311475R0000</a>	M8-FS-3CON-PUR-5.0	
<a href="#">1SET311479R0000</a>	M8-FS-4CON-PUR-1.0	
<a href="#">1SET311481R0000</a>	M8-FS-4CON-PUR-3.0	
<a href="#">1SET311482R0000</a>	M8-FS-4CON-PUR-5.0	
<a href="#">1SET311483R0000</a>	M8-FS-4CON-PUR-7.0	
<a href="#">1SET311484R0000</a>	M8-FS-4CON-PUR-10.0	
<a href="#">1SET312479R0000</a>	M8-FS-4CON-PUR-1.0SH	
<a href="#">1SET312481R0000</a>	M8-FS-4CON-PUR-3.0SH	
<a href="#">1SET312482R0000</a>	M8-FS-4CON-PUR-5.0SH	

### M8 FEMALE R/A SINGLE ENDED CORDSET


EWS PN	Part Description	Product Image
<a href="#">1SET312500R0000</a>	M8-FR-3CON-PUR-1.0SH	
<a href="#">1SET312502R0000</a>	M8-FR-3CON-PUR-3.0SH	
<a href="#">1SET312503R0000</a>	M8-FR-3CON-PUR-5.0SH	
<a href="#">1SET311500R0000</a>	M8-FR-3CON-PUR-1.0	
<a href="#">1SET311502R0000</a>	M8-FR-3CON-PUR-3.0	
<a href="#">1SET311503R0000</a>	M8-FR-3CON-PUR-5.0	
<a href="#">1SET311507R0000</a>	M8-FR-4CON-PUR-1.0	
<a href="#">1SET311509R0000</a>	M8-FR-4CON-PUR-3.0	
<a href="#">1SET311510R0000</a>	M8-FR-4CON-PUR-5.0	
<a href="#">1SET312507R0000</a>	M8-FR-4CON-PUR-1.0SH	
<a href="#">1SET312509R0000</a>	M8-FR-4CON-PUR-3.0SH	
<a href="#">1SET312510R0000</a>	M8-FR-4CON-PUR-5.0SH	

## ENTRELEC M8/M12/RJ45 CATALOG


### M8 MALE STR - FEMALE STR DOUBLE ENDED CORDSET

EWS PN	Part Description	Product Image
<a href="#">1SET311571R0000</a>	M8-3MS-1.0-M8-3FS-PUR	
<a href="#">1SET311573R0000</a>	M8-3MS-3.0-M8-3FS-PUR	
<a href="#">1SET311574R0000</a>	M8-3MS-5.0-M8-3FS-PUR	
<a href="#">1SET311578R0000</a>	M8-4MS-1.0-M8-4FS-PUR	
<a href="#">1SET311580R0000</a>	M8-4MS-3.0-M8-4FS-PUR	
<a href="#">1SET311581R0000</a>	M8-4MS-5.0-M8-4FS-PUR	
<a href="#">1SET312542R0000</a>	M8-3MS-1.0SH-M8-3FS-PUR	
<a href="#">1SET312544R0000</a>	M8-3MS-3.0SH-M8-3FS-PUR	
<a href="#">1SET312545R0000</a>	M8-3MS-5.0SH-M8-3FS-PUR	
<a href="#">1SET312549R0000</a>	M8-4MS-1.0SH-M8-4FS-PUR	
<a href="#">1SET312551R0000</a>	M8-4MS-3.0SH-M8-4FS-PUR	
<a href="#">1SET312552R0000</a>	M8-4MS-5.0SH-M8-4FS-PUR	

### M8 MALE R/A - FEMALE R/A DOUBE ENDED CORDSET


EWS PN	Part Description	Product Image
<a href="#">1SET311697R0000</a>	M8-3MR-1.0-M8-3FR-PUR	
<a href="#">1SET311699R0000</a>	M8-3MR-3.0-M8-3FR-PUR	
<a href="#">1SET3117°00R0000</a>	M8-3MR-5.0-M8-3FR-PUR	
<a href="#">1SET312612R0000</a>	M8-3MR-1.0SH-M8-3FR-PUR	
<a href="#">1SET311704R0000</a>	M8-4MR-1.0-M8-4FR-PUR	
<a href="#">1SET311706R0000</a>	M8-4MR-3.0-M8-4FR-PUR	
<a href="#">1SET311707R0000</a>	M8-4MR-5.0-M8-4FR-PUR	
<a href="#">1SET312614R0000</a>	M8-3MR-3.0SH-M8-3FR-PUR	
<a href="#">1SET312615R0000</a>	M8-3MR-5.0SH-M8-3FR-PUR	
<a href="#">1SET312619R0000</a>	M8-4MR-1.0SH-M8-4FR-PUR	
<a href="#">1SET312621R0000</a>	M8-4MR-3.0SH-M8-4FR-PUR	
<a href="#">1SET312622R0000</a>	M8-4MR-5.0SH-M8-4FR-PUR	

### M8 MALE STR - M12 FEMALE STR DOUBLE ENDED CORDSET


EWS PN	Part Description	Product Image
<a href="#">1SET311599R0000</a>	M8-3MS-1.0-M12-3FS-PUR	
<a href="#">1SET311601R0000</a>	M8-3MS-3.0-M12-3FS-PUR	
<a href="#">1SET311602R0000</a>	M8-3MS-5.0-M12-3FS-PUR	
<a href="#">1SET311606R0000</a>	M8-4MS-1.0-M12-4FS-PUR	
<a href="#">1SET311608R0000</a>	M8-4MS-3.0-M12-4FS-PUR	
<a href="#">1SET311609R0000</a>	M8-4MS-5.0-M12-4FS-PUR	

## ENTRELEC M8/M12/RJ45 CATALOG


### M8 MALE STR - M12 FEMALE R/A DOUBLE ENDED CORDSET

EWS PN	Part Description	Product Image
<a href="#">1SET311613R0000</a>	M8-3MS-1.0-M12-3FR-PUR	
<a href="#">1SET311615R0000</a>	M8-3MS-3.0-M12-3FR-PUR	
<a href="#">1SET311616R0000</a>	M8-3MS-5.0-M12-3FR-PUR	
<a href="#">1SET311620R0000</a>	M8-4MS-1.0-M12-4FR-PUR	
<a href="#">1SET311622R0000</a>	M8-4MS-3.0-M12-4FR-PUR	
<a href="#">1SET311623R0000</a>	M8-4MS-5.0-M12-4FR-PUR	


### M8 MALE R/A - M12 FEMALE STR DOUBLE ENDED CORDSET

EWS PN	Part Description	Product Image
<a href="#">1SET311711R0000</a>	M8-3MR-1.0-M12-3FS-PUR	
<a href="#">1SET311713R0000</a>	M8-3MR-3.0-M12-3FS-PUR	
<a href="#">1SET311714R0000</a>	M8-3MR-5.0-M12-3FS-PUR	
<a href="#">1SET311718R0000</a>	M8-4MR-1.0-M12-4FS-PUR	
<a href="#">1SET311720R0000</a>	M8-4MR-3.0-M12-4FS-PUR	
<a href="#">1SET311721R0000</a>	M8-4MR-5.0-M12-4FS-PUR	


### M8 MALE RA - M12 FEMALE R/A DOUBLE ENDED CORDSET

EWS PN	Part Description	Product Image
<a href="#">1SET311725R0000</a>	M8-3MR-1.0-M12-3FR-PUR	
<a href="#">1SET311727R0000</a>	M8-3MR-3.0-M12-3FR-PUR	
<a href="#">1SET311728R0000</a>	M8-3MR-5.0-M12-3FR-PUR	
<a href="#">1SET311732R0000</a>	M8-4MR-1.0-M12-4FR-PUR	
<a href="#">1SET311734R0000</a>	M8-4MR-3.0-M12-4FR-PUR	
<a href="#">1SET311735R0000</a>	M8-4MR-5.0-M12-4FR-PUR	

### M8 FEMALE STR - M12 MALE STR DOUBLE ENDED CORDSET


EWS PN	Part Description	Product Image
<a href="#">1SET311767R0000</a>	M8-3FS-1.0-M12-3MS-PUR	
<a href="#">1SET311769R0000</a>	M8-3FS-3.0-M12-3MS-PUR	
<a href="#">1SET311770R0000</a>	M8-3FS-5.0-M12-3MS-PUR	
<a href="#">1SET311774R0000</a>	M8-4FS-1.0-M12-4MS-PUR	
<a href="#">1SET311776R0000</a>	M8-4FS-3.0-M12-4MS-PUR	
<a href="#">1SET311777R0000</a>	M8-4FS-5.0-M12-4MS-PUR	

### M8 FEMALE STR - M12 MALE R/A DOUBLE ENDED CORDSET


EWS PN	Part Description	Product Image
<a href="#">1SET311781R0000</a>	M8-3FS-1.0-M12-3MR-PUR	
<a href="#">1SET311783R0000</a>	M8-3FS-3.0-M12-3MR-PUR	
<a href="#">1SET311784R0000</a>	M8-3FS-5.0-M12-3MR-PUR	
<a href="#">1SET311788R0000</a>	M8-4FS-1.0-M12-4MR-PUR	
<a href="#">1SET311790R0000</a>	M8-4FS-3.0-M12-4MR-PUR	
<a href="#">1SET311791R0000</a>	M8-4FS-5.0-M12-4MR-PUR	

## ENTRELEC M8/M12/RJ45 CATALOG


### M8 FEMALE R/A - M12 MALE STR DOUBLE ENDED CORDSET

EWS PN	Part Description	Product Image
<a href="#">1SET311823R0000</a>	M8-3FR-1.0-M12-3MS-PUR	
<a href="#">1SET311826R0000</a>	M8-3FR-5.0-M12-3MS-PUR	
<a href="#">1SET311830R0000</a>	M8-4FR-1.0-M12-4MS-PUR	
<a href="#">1SET311832R0000</a>	M8-4FR-3.0-M12-4MS-PUR	
<a href="#">1SET311833R0000</a>	M8-4FR-5.0-M12-4MS-PUR	

### M8 FEMALE R/A - M12 MALE R/A DOUBLE ENDED CORDSET


EWS PN	Part Description	Product Image
<a href="#">1SET311837R0000</a>	M8-3FR-1.0-M12-3MR-PUR	
<a href="#">1SET311839R0000</a>	M8-3FR-3.0-M12-3MR-PUR	
<a href="#">1SET311840R0000</a>	M8-3FR-5.0-M12-3MR-PUR	
<a href="#">1SET311844R0000</a>	M8-4FR-1.0-M12-4MR-PUR	
<a href="#">1SET311846R0000</a>	M8-4FR-3.0-M12-4MR-PUR	
<a href="#">1SET311847R0000</a>	M8-4FR-5.0-M12-4MR-PUR	

### M12 MALE A-CODE STR SINGLE ENDED CORDSET


EWS PN	Part Description	Product Image
<a href="#">1SET312850R0000</a>	M12-MS-4CON-PUR-1.0	
<a href="#">1SET312852R0000</a>	M12-MS-4CON-PUR-3.0	
<a href="#">1SET312853R0000</a>	M12-MS-4CON-PUR-5.0	
<a href="#">1SET312857R0000</a>	M12-MS-5CON-PUR-1.0	
<a href="#">1SET312859R0000</a>	M12-MS-5CON-PUR-3.0	
<a href="#">1SET312860R0000</a>	M12-MS-5CON-PUR-5.0	
<a href="#">1SET312864R0000</a>	M12-MS-8CON-PUR-1.0	
<a href="#">1SET312866R0000</a>	M12-MS-8CON-PUR-3.0	
<a href="#">1SET312867R0000</a>	M12-MS-8CON-PUR-5.0	
<a href="#">1SET314051R0000</a>	M12-MS-4CON-PUR-1.0SH	
<a href="#">1SET314053R0000</a>	M12-MS-4CON-PUR-3.0SH	
<a href="#">1SET314054R0000</a>	M12-MS-4CON-PUR-5.0SH	
<a href="#">1SET314058R0000</a>	M12-MS-5CON-PUR-1.0SH	
<a href="#">1SET314060R0000</a>	M12-MS-5CON-PUR-3.0SH	
<a href="#">1SET314061R0000</a>	M12-MS-5CON-PUR-5.0SH	
<a href="#">1SET314065R0000</a>	M12-MS-8CON-PUR-1.0SH	
<a href="#">1SET314067R0000</a>	M12-MS-8CON-PUR-3.0SH	
<a href="#">1SET314068R0000</a>	M12-MS-8CON-PUR-5.0SH	

## ENTRELEC M8/M12/RJ45 CATALOG

### M12 MALE A-CODE R/A SINGLE ENDED CORDSET

EWS PN	Part Description	Product Image
<a href="#">1SET312920R0000</a>	M12-MR-4CON-PUR-1.0	
<a href="#">1SET312922R0000</a>	M12-MR-4CON-PUR-3.0	
<a href="#">1SET312923R0000</a>	M12-MR-4CON-PUR-5.0	
<a href="#">1SET312927R0000</a>	M12-MR-5CON-PUR-1.0	
<a href="#">1SET312929R0000</a>	M12-MR-5CON-PUR-3.0	
<a href="#">1SET312930R0000</a>	M12-MR-5CON-PUR-5.0	
<a href="#">1SET312934R0000</a>	M12-MR-8CON-PUR-1.0	
<a href="#">1SET312936R0000</a>	M12-MR-8CON-PUR-3.0	
<a href="#">1SET312937R0000</a>	M12-MR-8CON-PUR-5.0	
<a href="#">1SET314121R0000</a>	M12-MR-4CON-PUR-1.0SH	
<a href="#">1SET314123R0000</a>	M12-MR-4CON-PUR-3.0SH	
<a href="#">1SET314124R0000</a>	M12-MR-4CON-PUR-5.0SH	
<a href="#">1SET314128R0000</a>	M12-MR-5CON-PUR-1.0SH	
<a href="#">1SET314130R0000</a>	M12-MR-5CON-PUR-3.0SH	
<a href="#">1SET314131R0000</a>	M12-MR-5CON-PUR-5.0SH	
<a href="#">1SET314135R0000</a>	M12-MR-8CON-PUR-1.0SH	
<a href="#">1SET314137R0000</a>	M12-MR-8CON-PUR-3.0SH	
<a href="#">1SET314138R0000</a>	M12-MR-8CON-PUR-5.0SH	

### M12 FEMALE A-CODE STR SINGLE ENDED CORDSET

EWS PN	Part Description	Product Image
<a href="#">1SET312990R0000</a>	M12-FS-4CON-PUR-1.0	
<a href="#">1SET312992R0000</a>	M12-FS-4CON-PUR-3.0	
<a href="#">1SET312993R0000</a>	M12-FS-4CON-PUR-5.0	
<a href="#">1SET312997R0000</a>	M12-FS-5CON-PUR-1.0	
<a href="#">1SET312999R0000</a>	M12-FS-5CON-PUR-3.0	
<a href="#">1SET313000R0000</a>	M12-FS-5CON-PUR-5.0	
<a href="#">1SET313004R0000</a>	M12-FS-8CON-PUR-1.0	
<a href="#">1SET313006R0000</a>	M12-FS-8CON-PUR-3.0	
<a href="#">1SET313007R0000</a>	M12-FS-8CON-PUR-5.0	
<a href="#">1SET314191R0000</a>	M12-FS-4CON-PUR-1.0SH	
<a href="#">1SET314193R0000</a>	M12-FS-4CON-PUR-3.0SH	
<a href="#">1SET314194R0000</a>	M12-FS-4CON-PUR-5.0SH	
<a href="#">1SET314198R0000</a>	M12-FS-5CON-PUR-1.0SH	
<a href="#">1SET314200R0000</a>	M12-FS-5CON-PUR-3.0SH	
<a href="#">1SET314201R0000</a>	M12-FS-5CON-PUR-5.0SH	
<a href="#">1SET314205R0000</a>	M12-FS-8CON-PUR-1.0SH	
<a href="#">1SET314207R0000</a>	M12-FS-8CON-PUR-3.0SH	
<a href="#">1SET314208R0000</a>	M12-FS-8CON-PUR-5.0SH	




## ENTRELEC M8/M12/RJ45 CATALOG

### M12 FEMALE A-CODE R/A SINGLE ENDED CORDSET


EWS PN	Part Description	Product Image
<a href="#">1SET313060R0000</a>	M12-FR-4CON-PUR-1.0	
<a href="#">1SET313062R0000</a>	M12-FR-4CON-PUR-3.0	
<a href="#">1SET313063R0000</a>	M12-FR-4CON-PUR-5.0	
<a href="#">1SET313067R0000</a>	M12-FR-5CON-PUR-1.0	
<a href="#">1SET313069R0000</a>	M12-FR-5CON-PUR-3.0	
<a href="#">1SET313070R0000</a>	M12-FR-5CON-PUR-5.0	
<a href="#">1SET313074R0000</a>	M12-FR-8CON-PUR-1.0	
<a href="#">1SET313076R0000</a>	M12-FR-8CON-PUR-3.0	
<a href="#">1SET313077R0000</a>	M12-FR-8CON-PUR-5.0	
<a href="#">1SET314261R0000</a>	M12-FR-4CON-PUR-1.0SH	
<a href="#">1SET314263R0000</a>	M12-FR-4CON-PUR-3.0SH	
<a href="#">1SET314264R0000</a>	M12-FR-4CON-PUR-5.0SH	
<a href="#">1SET314268R0000</a>	M12-FR-5CON-PUR-1.0SH	
<a href="#">1SET314270R0000</a>	M12-FR-5CON-PUR-3.0SH	
<a href="#">1SET314271R0000</a>	M12-FR-5CON-PUR-5.0SH	
<a href="#">1SET314275R0000</a>	M12-FR-8CON-PUR-1.0SH	
<a href="#">1SET314277R0000</a>	M12-FR-8CON-PUR-3.0SH	
<a href="#">1SET314278R0000</a>	M12-FR-8CON-PUR-5.0SH	

### M12 A-CODE MALE STR - FEMALE STR DOUBLE ENDED CORDSET


EWS PN	Part Description	Product Image
<a href="#">1SET313169R0000</a>	M12-4MS-1.0-M12-4FS-PUR	
<a href="#">1SET313171R0000</a>	M12-4MS-3.0-M12-4FS-PUR	
<a href="#">1SET313172R0000</a>	M12-4MS-5.0-M12-4FS-PUR	
<a href="#">1SET313176R0000</a>	M12-5MS-1.0-M12-5FS-PUR	
<a href="#">1SET313178R0000</a>	M12-5MS-3.0-M12-5FS-PUR	
<a href="#">1SET313179R0000</a>	M12-5MS-5.0-M12-5FS-PUR	
<a href="#">1SET314367R0000</a>	M12-4MS-1.0SH-M12-4FS-PUR	
<a href="#">1SET314369R0000</a>	M12-4MS-3.0SH-M12-4FS-PUR	
<a href="#">1SET314370R0000</a>	M12-4MS-5.0SH-M12-4FS-PUR	
<a href="#">1SET314374R0000</a>	M12-5MS-1.0SH-M12-5FS-PUR	
<a href="#">1SET314376R0000</a>	M12-5MS-3.0SH-M12-5FS-PUR	
<a href="#">1SET314377R0000</a>	M12-5MS-5.0SH-M12-5FS-PUR	

## ENTRELEC M8/M12/RJ45 CATALOG


### M12 A-CODE MALE STR - FEMALE R/A DOUBLE ENDED CORDSET

EWS PN	Part Description	Product Image
<a href="#">1SET313204R0000</a>	M12-4MS-1.0-M12-4FR-PUR	
<a href="#">1SET313206R0000</a>	M12-4MS-3.0-M12-4FR-PUR	
<a href="#">1SET313207R0000</a>	M12-4MS-5.0-M12-4FR-PUR	
<a href="#">1SET313211R0000</a>	M12-5MS-1.0-M12-5FR-PUR	
<a href="#">1SET313213R0000</a>	M12-5MS-3.0-M12-5FR-PUR	
<a href="#">1SET313214R0000</a>	M12-5MS-5.0-M12-5FR-PUR	
<a href="#">1SET314402R0000</a>	M12-4MS-1.0SH-M12-4FR-PUR	
<a href="#">1SET314404R0000</a>	M12-4MS-3.0SH-M12-4FR-PUR	
<a href="#">1SET314405R0000</a>	M12-4MS-5.0SH-M12-4FR-PUR	
<a href="#">1SET314409R0000</a>	M12-5MS-1.0SH-M12-5FR-PUR	
<a href="#">1SET314411R0000</a>	M12-5MS-3.0SH-M12-5FR-PUR	
<a href="#">1SET314412R0000</a>	M12-5MS-5.0SH-M12-5FR-PUR	

### M12 A-CODE MALE R/A - FEMALE STR DOUBLE ENDED CORDSET



EWS PN	Part Description	Product Image
<a href="#">1SET313309R0000</a>	M12-4MR-1.0-M12-4FS-PUR	
<a href="#">1SET313311R0000</a>	M12-4MR-3.0-M12-4FS-PUR	
<a href="#">1SET313312R0000</a>	M12-4MR-5.0-M12-4FS-PUR	
<a href="#">1SET313316R0000</a>	M12-5MR-1.0-M12-5FS-PUR	
<a href="#">1SET313318R0000</a>	M12-5MR-3.0-M12-5FS-PUR	
<a href="#">1SET313319R0000</a>	M12-5MR-5.0-M12-5FS-PUR	
<a href="#">1SET314507R0000</a>	M12-4MR-1.0SH-M12-4FS-PUR	
<a href="#">1SET314509R0000</a>	M12-4MR-3.0SH-M12-4FS-PUR	
<a href="#">1SET314510R0000</a>	M12-4MR-5.0SH-M12-4FS-PUR	
<a href="#">1SET314514R0000</a>	M12-5MR-1.0SH-M12-5FS-PUR	
<a href="#">1SET314516R0000</a>	M12-5MR-3.0SH-M12-5FS-PUR	
<a href="#">1SET314517R0000</a>	M12-5MR-5.0SH-M12-5FS-PUR	

### M12 A-CODE MALE R/A - FEMALE R/A DOUBLE ENDED CORDSET



EWS PN	Part Description	Product Image
<a href="#">1SET313344R0000</a>	M12-4MR-1.0-M12-4FR-PUR	
<a href="#">1SET313346R0000</a>	M12-4MR-3.0-M12-4FR-PUR	
<a href="#">1SET313347R0000</a>	M12-4MR-5.0-M12-4FR-PUR	
<a href="#">1SET313351R0000</a>	M12-5MR-1.0-M12-5FR-PUR	
<a href="#">1SET313353R0000</a>	M12-5MR-3.0-M12-5FR-PUR	
<a href="#">1SET313354R0000</a>	M12-5MR-5.0-M12-5FR-PUR	
<a href="#">1SET314542R0000</a>	M12-4MR-1.0SH-M12-4FR-PUR	
<a href="#">1SET314544R0000</a>	M12-4MR-3.0SH-M12-4FR-PUR	
<a href="#">1SET314545R0000</a>	M12-4MR-5.0SH-M12-4FR-PUR	
<a href="#">1SET314549R0000</a>	M12-5MR-1.0SH-M12-5FR-PUR	
<a href="#">1SET314551R0000</a>	M12-5MR-3.0SH-M12-5FR-PUR	
<a href="#">1SET314552R0000</a>	M12-5MR-5.0SH-M12-5FR-PUR	

# ENTRELEC M8/M12/RJ45 CATALOG

## M12 FEMALE A-CODE R/A SINGLE ENDED CORDSET M8 UNSHIELDED CABLE ASSEMBLIES



	M8 Cable Assembly Unshielded PVC Series		M8 Cable Assembly Unshielded PUR Series	
Image	<p>PVC</p> 		<p>PUR</p> 	
No. of conductors	3	4	3	4
Jacket material	PVC		PUR	
Jacket color	Black		Gray	
Cross section	24AWG		24AWG	
Construction	32/0.10mm		32/0.10mm	
Temp range-fixed	-10°C-80°C		-40°C-80°C	
Temp range-flexible	-5°C-80°C		-25°C-80°C	
Features	Flame retardant, rohs		Flame retardant, oil resistant, rohs	
Standards	UL758, UL1581, UL2464		UL758, UL1581, UL20549	

## M8 SHIELDED CABLE ASSEMBLIES



	M8 Cable Assembly Shielded PVC Series		M8 Cable Assembly Shielded PUR Series	
Image	<p>PVC</p> 		<p>PUR</p> 	
No. of conductors	3	4	3	4
Jacket material	PVC		PUR	
Jacket color	Black		Gray	
Cross section	24AWG		24AWG	
Construction	Construction: 32/0.10mm Shield1: AL/Mylar Shield2: Tinned copper braid		Construction: 32/0.10mm Shield1: AL/Mylar Shield2: Tinned copper braid	
Temp range-fixed	-10°C-80°C		-40°C-80°C	
Temp range-flexible	-5°C-80°C		-25°C-80°C	
Features	Flame retardant, rohs		Flame retardant, oil resistant, rohs	
Standards	UL758, UL1581, UL2464		UL758, UL1581, UL20549	

# ENTRELEC M8/M12/RJ45 CATALOG

## M12 UNSHIELDED CABLE ASSEMBLIES

	M12 PVC Cable Assembly Unshielded Series					M12 PUR Cable Assembly Unshielded Series				
Image										
No. of conductors	2	3	4	5	8	2	3	4	5	8
Jacket material	PVC					PUR				
Jacket color	Black					Gray				
Cross section	22AWG					22AWG	22AWG	22AWG	22AWG	24AWG
Construction	43/0.10 mm	43/0.10 mm	43/0.10 mm	43/0.10 mm	32/0.10 mm	43/0.10 mm	43/0.10 mm	43/0.10 mm	43/0.10 mm	32/0.10 mm
Temp range-fixed	-10°C-80°C					-40°C-80°C				
Temp range-flexible	-5°C-80°C					-25°C-80°C				
Features	Flame retardant, rohs					Flame retardant, oil resistant, rohs				
Standards	UL758, UL1581, UL2464					UL758, UL1581, UL20549				

## M12 SHIELDED CABLE ASSEMBLIES

	M12 Cable Assembly Shielded Series					M12 Cable Assembly Shielded Series				
Image										
No. of conductors	2	3	4	5	8	2	3	4	5	8
Jacket material	PVC					PUR				
Jacket color	Black					Gray				
Cross section	22AWG	22AWG	22AWG	22AWG	24AWG	22AWG	22AWG	22AWG	22AWG	24AWG
Construction	Construction: 43/0.10mm Shield1: AL/Mylar Shield2: Tinned copper braid			Construction: 32/0.10mm Shield1: AL/Mylar Shield2: Tinned copper braid		Construction: 43/0.10mm Shield1: AL/Mylar Shield2: Tinned copper braid			Construction: 2/0.10mm Shield1: AL/Mylar Shield2: Tinned copper braid	
Temp range-Fixed	-10°C-80°C					-40°C-80°C				
Temp range-Flexible	-5°C-80°C					-25°C-80°C				
Features	Flame retardant, rohs					Flame retardant, oil resistant, rohs				
Standards	UL758, UL1581, UL2464					UL758, UL1581, UL20549				

### M12 FIELDBUS CABLE ASSEMBLY SOLUTIONS

ENTRELEC now complements its sensor/actuator cable assemblies with data communication solutions by introducing the fieldbus cable assemblies. First developed more than two decades ago, many different field networks still continue to dominate Industrial automation and process control. Fieldbus networks seem to be very practical at the lowest level of the automation pyramid and are critical element of Industry 4.0, IIoT and beyond for end devices that do not require the bandwidth but do need the ability to have power and signal in the same cable.



The new A and B-coded M12 cable assemblies comply with Profibus, DeviceNet and CC-link protocols, offering multiple options for a variety of needs that makes ENTRELEC an one-stop shop. They have 360-degree shielding against EMI for extensive protection for signal and data transmission, and are rated IP67 for resistance to dust and water. The assemblies are overmolded in either PVC or halogen-free polyurethane (PUR) cables, suitable for drag chain applications or torsional stress, depending on customer performance requirements.

Assemblies are produced in many customer-specific plug-and-play configurations to enable design flexibility and quick installation in most industrial environments. Applications for the new assemblies lie in numerous areas of industry, including process control systems, robotics and automation, production equipment, machine tools and material handling.

ENTRELEC Fieldbus M12 cable assemblies are available as single-ended or double-ended, in straight and angled versions, all shielded variants. Various cable types are offered depending on the application requirements. The predefined offering in length of 0.5, to 15 meters covers a vast range of customer needs on the market, while customized cable assemblies in different lengths provide a solution for specific needs. All can be used in combination with TE's male/female connectors.

#### BENEFITS

- Enhanced signal transmission
- Reduced noise and interference
- Enhanced installation versatility
- Cable types variations for drag chain and torsion applications

#### KEY FEATURES

- IP67 rated: dust and water resistant
- Overmolded PVC or PUR cable assemblies/Shielded
- Key options: A, B coded
- M12 Positions: 2, 4, 5 pos
- M12 B-coded 5-pole for Profibus applications
- M12 A-code 5pos for DeviceNet applications
- M12 A-code 4pos for CC-link applications
- Cable length options: 0.5 m, 1 m, 2m, 4m, 6m, 8m, 10m & 15m

## APPLICATIONS

- Industrial communications
- Industrial machinery
- Industrial automation
- Machine tools
- Robotics
- Material handling
- Process control systems

## ELECTRICAL

### VOLTAGE AND CURRENT RATING:

- M12 A code 4 poles: 250V/4A
- M12 A code 5 poles: 60V/4A
- M12 B code 2 poles: 250V/4A

## MATERIALS

- Contact: Brass, gold plating
- Nut & Shells: Brass, nickel plating
- O-ring: Silicon rubber
- Over-molding: TPU/PVC
- Housing: PA
- PROFIBUS® M12 Cable Assy B-code 2-pole 1x2x22AWG PUR Drag Chain
- PROFIBUS®M12 Cable Assy B-code 2-pole 1x2x24AWG PUR Torsion
- DeviceNet™ M12 Cable Assy A-code 5-pole 2x24AWG+2x22AWG Thin Violet PUR
- DeviceNet™ M12 Cable Assy A-code 5-pole 2x24AWG+2x22AWG Thin Gray PVC
- CC-Link® M12 Cable Assy A-code 4pos 3 conductor 20AWG Red PVC

## MECHANICAL


- Durability: up to 100 cycles
- Degree of protection: IP67
- Temperature ratings:
  - Profibus PUR:
    - Fixed: -40°C to +80°C
    - Flexible: -40°C to +75°C
- Profibus PUR Torsion:  
Operating temperature -25°C to +75°C
- DeviceNet PUR:  
Operating temperature -20°C to +75°C
- DeviceNet PVC:  
Operating temperature -40°C to +80°C
- CC-Link PVC:  
Operating temperature -30°C to +60°C

## SPECIFICATIONS


- Product specification: 108-106140
- Application specification: 114-137144
- UL standard: UL2238
- IEC 61076-2-101: Detail specification for M12 connectors with screw-locking
- IEC 60512: Electromechanical components for electronic equipment; basic testing procedure and measuring methods
- IEC-60529: Degree of protection provided by enclosures (IP Code)

## ENTRELEC M8/M12/RJ45 CATALOG


### DEVICENET MALE M12 A-CODE 5POS CABLE ASSEMBLIES SINGLE ENDED PVC

EWS PN	Part Description	Product Image
<a href="#">1SET315057R0000</a>	M12A5-MS-PVC-0.5M	
<a href="#">1SET315058R0000</a>	M12A5-MS-PVC-1.0M	
<a href="#">1SET315061R0000</a>	M12A5-MS-PVC-2.0M	
<a href="#">1SET315062R0000</a>	M12A5-MS-PVC-4.0M	


### DEVICENET MALE M12 A-CODE 5POS CABLE ASSEMBLIES SINGLE ENDED PUR

EWS PN	Part Description	Product Image
<a href="#">1SET315067R0000</a>	M12A5-MS-PUR-0.5M	
<a href="#">1SET315068R0000</a>	M12A5-MS-PUR-1.0M	
<a href="#">1SET315070R0000</a>	M12A5-MS-PUR-2.0M	
<a href="#">1SET315071R0000</a>	M12A5-MS-PUR-4.0M	


### DEVICENET MALE R/A M12 A-CODE 5POS CABLE ASSEMBLIES SINGLE ENDED PVC

EWS PN	Part Description	Product Image
<a href="#">1SET315075R0000</a>	M12A5-MR-PVC-0.5M	
<a href="#">1SET315076R0000</a>	M12A5-MR-PVC-1.0M	
<a href="#">1SET315078R0000</a>	M12A5-MR-PVC-2.0M	
<a href="#">1SET315079R0000</a>	M12A5-MR-PVC-4.0M	


### DEVICENET MALE R/A M12 A-CODE 5POS CABLE ASSEMBLIES SINGLE ENDED PVC

EWS PN	Part Description	Product Image
<a href="#">1SET315083R0000</a>	M12A5-MR-PUR-0.5M	
<a href="#">1SET315084R0000</a>	M12A5-MR-PUR-1.0M	
<a href="#">1SET315086R0000</a>	M12A5-MR-PUR-2.0M	
<a href="#">1SET315087R0000</a>	M12A5-MR-PUR-4.0M	

### DEVICENET FEMALE M12 A-CODE 5POS CABLE ASSEMBLIES SINGLE ENDED PVC

EWS PN	Part Description	Product Image
<a href="#">1SET315091R0000</a>	M12A5-FS-PVC-0.5M	
<a href="#">1SET315092R0000</a>	M12A5-FS-PVC-1.0M	
<a href="#">1SET315094R0000</a>	M12A5-FS-PVC-2.0M	
<a href="#">1SET315095R0000</a>	M12A5-FS-PVC-4.0M	


### DEVICENET FEMALE M12 A-CODE 5POS CABLE ASSEMBLIES SINGLE ENDED PVC

EWS PN	Part Description	Product Image
<a href="#">1SET315091R0000</a>	M12A5-FS-PVC-0.5M	
<a href="#">1SET315092R0000</a>	M12A5-FS-PVC-1.0M	
<a href="#">1SET315094R0000</a>	M12A5-FS-PVC-2.0M	
<a href="#">1SET315095R0000</a>	M12A5-FS-PVC-4.0M	




## ENTRELEC M8/M12/RJ45 CATALOG


### DEVICENET MALE STR - FEMALE R/A M12 A-CODE 5POS CABLE ASSEMBLIES DOUBLE ENDED PUR

EWS PN	Part Description	Product Image
<a href="#">1SET315147R0000</a>	M12A5-MS-FR-PUR-0.5M	
<a href="#">1SET315148R0000</a>	M12A5-MS-FR-PUR-1.0M	
<a href="#">1SET315150R0000</a>	M12A5-MS-FR-PUR-2.0M	
<a href="#">1SET315151R0000</a>	M12A5-MS-FR-PUR-4.0M	


### DEVICENET MALE R/A - FEMALE STR M12 A-CODE 5POS CABLE ASSEMBLIES DOUBLE ENDED PVC

EWS PN	Part Description	Product Image
<a href="#">1SET315155R0000</a>	M12A5-MR-FS-PVC-0.5M	
<a href="#">1SET315156R0000</a>	M12A5-MR-FS-PVC-1.0M	
<a href="#">1SET315158R0000</a>	M12A5-MR-FS-PVC-2.0M	
<a href="#">1SET315159R0000</a>	M12A5-MR-FS-PVC-4.0M	


### DEVICENET MALE R/A - FEMALE STR M12 A-CODE 5POS CABLE ASSEMBLIES DOUBLE ENDED PUR

EWS PN	Part Description	Product Image
<a href="#">1SET315163R0000</a>	M12A5-MR-FS-PUR-0.5M	
<a href="#">1SET315164R0000</a>	M12A5-MR-FS-PUR-1.0M	
<a href="#">1SET315166R0000</a>	M12A5-MR-FS-PUR-2.0M	
<a href="#">1SET315167R0000</a>	M12A5-MR-FS-PUR-4.0M	


### PROFIBUS MALE STR M12 B-CODE 2-POS CABLE ASSEMBLIES SINGLE ENDED PUR FLEX/Drag CHAIN

EWS PN	Part Description	Product Image
<a href="#">1SET315174R0000</a>	M12B2-MS-PUR-0.5M	
<a href="#">1SET315175R0000</a>	M12B2-MS-PUR-1.0M	
<a href="#">1SET315177R0000</a>	M12B2-MS-PUR-2.0M	
<a href="#">1SET315178R0000</a>	M12B2-MS-PUR-4.0M	

### PROFIBUS MALE STR M12 B-CODE 2-POS CABLE ASSEMBLIES SINGLE ENDED PUR TORSION


EWS PN	Part Description	Product Image
<a href="#">1SET315182R0000</a>	M12B2-MS-PUR TORSION-0.5M	
<a href="#">1SET315183R0000</a>	M12B2-MS-PUR TORSION-1.0M	
<a href="#">1SET315185R0000</a>	M12B2-MS-PUR TORSION-2.0M	
<a href="#">1SET315186R0000</a>	M12B2-MS-PUR TORSION-4.0M	

### PROFIBUS MALE R/A M12 B-CODE 2-POS CABLE ASSEMBLIES SINGLE ENDED PUR FLEX/Drag CHAIN


EWS PN	Part Description	Product Image
<a href="#">1SET315190R0000</a>	M12B2-MR-PUR-0.5M	
<a href="#">1SET315191R0000</a>	M12B2-MR-PUR-1.0M	
<a href="#">1SET315193R0000</a>	M12B2-MR-PUR-2.0M	
<a href="#">1SET315194R0000</a>	M12B2-MR-PUR-4.0M	

## ENTRELEC M8/M12/RJ45 CATALOG


### DEVICENET FEMALE M12 A-CODE 5POS CABLE ASSEMBLIES SINGLE ENDED PUR

EWS PN	Part Description	Product Image
<a href="#">1SET315099R0000</a>	M12A5-FS-PUR-0.5M	
<a href="#">1SET315100R0000</a>	M12A5-FS-PUR-1.0M	
<a href="#">1SET315102R0000</a>	M12A5-FS-PUR-2.0M	
<a href="#">1SET315103R0000</a>	M12A5-FS-PUR-4.0M	


### DEVICENET FEMALE R/A M12 A-CODE 5POS CABLE ASSEMBLIES SINGLE ENDED PVC

EWS PN	Part Description	Product Image
<a href="#">1SET315107R0000</a>	M12A5-FR-PVC-0.5M	
<a href="#">1SET315108R0000</a>	M12A5-FR-PVC-1.0M	
<a href="#">1SET315110R0000</a>	M12A5-FR-PVC-2.0M	
<a href="#">1SET315111R0000</a>	M12A5-FR-PVC-4.0M	


### DEVICENET FEMALE R/A M12 A-CODE 5POS CABLE ASSEMBLIES SINGLE ENDED PUR

EWS PN	Part Description	Product Image
<a href="#">1SET315115R0000</a>	M12A5-FR-PUR-0.5M	
<a href="#">1SET315116R0000</a>	M12A5-FR-PUR-1.0M	
<a href="#">1SET315118R0000</a>	M12A5-FR-PUR-2.0M	
<a href="#">1SET315119R0000</a>	M12A5-FR-PUR-4.0M	


### DEVICENET MALE STR - FEMALE STR M12 A-CODE 5POS CABLE ASSEMBLIES DOUBLE ENDED PVC

EWS PN	Part Description	Product Image
<a href="#">1SET315123R0000</a>	M12A5-MS-FS-PVC-0.5M	
<a href="#">1SET315124R0000</a>	M12A5-MS-FS-PVC-1.0M	
<a href="#">1SET315126R0000</a>	M12A5-MS-FS-PVC-2.0M	
<a href="#">1SET315127R0000</a>	M12A5-MS-FS-PVC-4.0M	

### DEVICENET MALE STR - FEMALE STR M12 A-CODE 5POS CABLE ASSEMBLIES DOUBLE ENDED PUR


EWS PN	Part Description	Product Image
<a href="#">1SET315131R0000</a>	M12A5-MS-FS-PUR-0.5M	
<a href="#">1SET315132R0000</a>	M12A5-MS-FS-PUR-1.0M	
<a href="#">1SET315134R0000</a>	M12A5-MS-FS-PUR-2.0M	
<a href="#">1SET315135R0000</a>	M12A5-MS-FS-PUR-4.0M	

### DEVICENET MALE STR - FEMALE R/A M12 A-CODE 5POS CABLE ASSEMBLIES DOUBLE ENDED PVC


EWS PN	Part Description	Product Image
<a href="#">1SET315139R0000</a>	M12A5-MS-FR-PVC-0.5M	
<a href="#">1SET315140R0000</a>	M12A5-MS-FR-PVC-1.0M	
<a href="#">1SET315142R0000</a>	M12A5-MS-FR-PVC-2.0M	
<a href="#">1SET315143R0000</a>	M12A5-MS-FR-PVC-4.0M	

## ENTRELEC M8/M12/RJ45 CATALOG


### PROFIBUS MALE R/A M12 B-CODE 2-POS CABLE ASSEMBLIES SINGLE ENDED PUR TORSION

EWS PN	Part Description	Product Image
<a href="#">1SET315198R0000</a>	M12B2-MR-PUR TORSION-0.5M	
<a href="#">1SET315199R0000</a>	M12B2-MR-PUR TORSION-1.0M	
<a href="#">1SET315201R0000</a>	M12B2-MR-PUR TORSION-2.0M	
<a href="#">1SET315202R0000</a>	M12B2-MR-PUR TORSION-4.0M	


### PROFIBUS FEMALE STR M12 B-CODE 2-POS CABLE ASSEMBLIES SINGLE ENDED PUR FLEX/Drag Chain

EWS PN	Part Description	Product Image
<a href="#">1SET315206R0000</a>	M12B2-FS-PUR-0.5M	
<a href="#">1SET315207R0000</a>	M12B2-FS-PUR-1.0M	
<a href="#">1SET315209R0000</a>	M12B2-FS-PUR-2.0M	
<a href="#">1SET315210R0000</a>	M12B2-FS-PUR-4.0M	


### PROFIBUS FEMALE STR M12 B-CODE 2-POS CABLE ASSEMBLIES SINGLE ENDED PUR TORSION

EWS PN	Part Description	Product Image
<a href="#">1SET315214R0000</a>	M12B2-FS-PUR TORSION-0.5M	
<a href="#">1SET315215R0000</a>	M12B2-FS-PUR TORSION-1.0M	
<a href="#">1SET315217R0000</a>	M12B2-FS-PUR TORSION-2.0M	
<a href="#">1SET315218R0000</a>	M12B2-FS-PUR TORSION-4.0M	


### PROFIBUS FEMALE R/A M12 B-CODE 2-POS CABLE ASSEMBLIES SINGLE ENDED PUR FLEX/Drag Chain

EWS PN	Part Description	Product Image
<a href="#">1SET315222R0000</a>	M12B2-FR-PUR-0.5M	
<a href="#">1SET315223R0000</a>	M12B2-FR-PUR-1.0M	
<a href="#">1SET315225R0000</a>	M12B2-FR-PUR-2.0M	
<a href="#">1SET315226R0000</a>	M12B2-FR-PUR-4.0M	

### PROFIBUS FEMAL R/A M12 B-CODE 2-POS CABLE ASSEMBLIES SINGLE ENDED PUR TORSION


EWS PN	Part Description	Product Image
<a href="#">1SET315230R0000</a>	M12B2-FR-PUR TORSION-0.5M	
<a href="#">1SET315231R0000</a>	M12B2-FR-PUR TORSION-1.0M	
<a href="#">1SET315233R0000</a>	M12B2-FR-PUR TORSION-2.0M	
<a href="#">1SET315234R0000</a>	M12B2-FR-PUR TORSION-4.0M	

### PROFIBUS MALE STR-FEMALE STR M12 B-CODE 2-POS CABLE ASSEMBLIES DOUBLE ENDED PUR FLEX/Drag Chain


EWS PN	Part Description	Product Image
<a href="#">1SET315238R0000</a>	M12B2-MS-FS-PUR-0.5M	
<a href="#">1SET315239R0000</a>	M12B2-MS-FS-PUR-1.0M	
<a href="#">1SET315241R0000</a>	M12B2-MS-FS-PUR-2.0M	
<a href="#">1SET315242R0000</a>	M12B2-MS-FS-PUR-4.0M	

## ENTRELEC M8/M12/RJ45 CATALOG


### PROFIBUS MALE STR - FEMALE STR M12 B-CODE 2-POS CABLE ASSEMBLIES DOUBLE ENDED PUR TORSION

EWS PN	Part Description	Product Image
<a href="#">1SET315246R0000</a>	M12B2-MS-FS-PUR TORSION-0.5M	
<a href="#">1SET315247R0000</a>	M12B2-MS-FS-PUR TORSION-1.0M	
<a href="#">1SET315249R0000</a>	M12B2-MS-FS-PUR TORSION-2.0M	
<a href="#">1SET315250R0000</a>	M12B2-MS-FS-PUR TORSION-4.0M	


### PROFIBUS MALE STR - FEMALE STR M12 B-CODE 2-POS CABLE ASSEMBLIES DOUBLE ENDED PUR TORSION

EWS PN	Part Description	Product Image
<a href="#">1SET315254R0000</a>	M12B2-MS-FR-PUR-0.5M	
<a href="#">1SET315255R0000</a>	M12B2-MS-FR-PUR-1.0M	
<a href="#">1SET315257R0000</a>	M12B2-MS-FR-PUR-2.0M	
<a href="#">1SET315258R0000</a>	M12B2-MS-FR-PUR-4.0M	


### PROFIBUS MALE STR-FEMALE R/A M12 B-CODE 2-POS CABLE ASSEMBLIES DOUBLE ENDED PUR TORSION

EWS PN	Part Description	Product Image
<a href="#">1SET315262R0000</a>	M12B2-MS-FR-PUR TORSION-0.5M	
<a href="#">1SET315263R0000</a>	M12B2-MS-FR-PUR TORSION-1.0M	
<a href="#">1SET315265R0000</a>	M12B2-MS-FR-PUR TORSION-2.0M	
<a href="#">1SET315266R0000</a>	M12B2-MS-FR-PUR TORSION-4.0M	

### PROFIBUS MALE R/A - FEMALE STR M12 B-CODE 2-POS CABLE ASSEMBLIES DOUBLE ENDED PUR FLEX/Drag Chain

EWS PN	Part Description	Product Image
<a href="#">1SET315270R0000</a>	M12B2-MR-FS-PUR-0.5M	
<a href="#">1SET315271R0000</a>	M12B2-MR-FS-PUR-1.0M	
<a href="#">1SET315273R0000</a>	M12B2-MR-FS-PUR-2.0M	
<a href="#">1SET315274R0000</a>	M12B2-MR-FS-PUR-4.0M	

### PROFIBUS MALE R/A - FEMALE STR M12 B-CODE 2-POS CABLE ASSEMBLIES DOUBLE ENDED PUR TORSION

EWS PN	Part Description	Product Image
<a href="#">1SET315278R0000</a>	M12B2-MR-FS-PUR TORSION-0.5M	
<a href="#">1SET315279R0000</a>	M12B2-MR-FS-PUR TORSION-1.0M	
<a href="#">1SET315281R0000</a>	M12B2-MR-FS-PUR TORSION-2.0M	
<a href="#">1SET315282R0000</a>	M12B2-MR-FS-PUR TORSION-4.0M	

### M12 INDUSTRIAL ETHERNET D-CODE CABLE ASSEMBLY CONNECTIVITY

ENTRELEC now offers M12 data cable assemblies with D-code interfaces that support ethernet protocols as part of its package of industrial ethernet and fieldbus solutions. This makes it one-stop shop for M8/M12 cable assemblies for industrial network communications.

ENTRELEC has enriched its already large offering in Fieldbus connectivity solutions (based on Profibus, DeviceNet, CanOpen and CC-link) with industrial ethernet protocols such as Profinet, EtherCAT, Ethernet/IP and SERCOS-III.



#### BENEFITS

- Ethernet is rapidly becoming the technology of choice for higher-level industrial control applications that call for real-time data
- In order for ethernet to be used in industrial environments, cables and connectors must be adapted to withstand harsh environmental conditions often found there
- ENTRELEC M12 Ethernet cable assemblies deliver the speed, reliability and ruggedness that smart factories demand
- With the high cost of downtime in industrial applications, it pays to invest in cable assemblies that provide reliable high performance
- ENTRELEC M12 cable assemblies will play an important role in bringing the Industrial Internet of Things to life

#### KEY FEATURES

- Jacketing is in halogen-free flame-retardant thermoplastic polyurethane (PUR) or other FRNC (flame retardant, non-corrosive) materials
- PVC provides a competitive and economic solution for occasional movement or vibration, but PUR is more suited to more demanding applications such as, drag chains and harsh environments where operational reliability is crucial
- Depending on the material, the assemblies withstand up to 1 million flexes, machine oils, abrasion and UV radiation
- Category 5e cables can realize transmission rates of 100Mbps to meet network requirements in the field and at supervisory management levels
- The new assemblies are available with several standard cable length options from 0.5m through 30m

## APPLICATIONS

- Industrial communications
- Process control systems
- Industrial machinery
- Industrial automation
- Machine tools
- Robotics
- Material handling

## MECHANICAL

- Durability: 100 cycles (up to 1M for drag chain cable)
- Degree of protection: IP67
- Temperature ratings:
  - Industrial Ethernet SERCOS III Type B PVC:
    - Operating temperature -40°C to +80°C (fixed)
    - 20°C to +60°C (flexible)
  - Industrial Ethernet Profinet Type B PVC:
    - Operating temperature -40°C to +80°C (fixed)
    - 20°C to +60°C (flexible)
  - Industrial Ethernet Profinet Type C PUR:
    - Operating temperature -30°C to +70°C (fixed)
    - 20°C to +60°C (flexible)
  - Industrial Ethernet Profinet Type B FRNC:
    - Operating temperature -25°C to +80°C (fixed)
    - 25°C to +80°C (flexible)

## ELECTRICAL

M12 D code 4 poles: 30V/1.5A

## MATERIALS

- Contact: Brass, gold plating 30um
- Nut & Shells: Brass, nickel plating
- O-ring: Silicon rubber
- Over-molding: PUR/PVC
- Housing: PA
- Cable Jacket materials: PUR,PVC, FRNC


## SPECIFICATIONS

- UL1863
- IEC 61076-2-101: Detail specification for M12 connectors with screw-locking (but true position 0.1mm requirement for male side is not required)
- IEC 60512: Electromechanical components for electronic equipment; basic testing procedure and measuring methods
- IEC-60529: Degree of protection provided by enclosures (IP Code)
- ISO/IEC 11801 category 5e




## ENTRELEC M8/M12/RJ45 CATALOG


### M12 MALE STR ETHERNET D-CODE 4-POS CABLE ASSEMBLIES SINGLE ENDED TYPE B PVC

EWS PN	Part Description	Product Image
<a href="#">1SET315286R0000</a>	M12D4-MS-PVC TYPE B-0.5M	
<a href="#">1SET315287R0000</a>	M12D4-MS-PVC TYPE B-1.0M	
<a href="#">1SET315288R0000</a>	M12D4-MS-PVC TYPE B-5.0M	
<a href="#">1SET315290R0000</a>	M12D4-MS-PVC TYPE B-2.0M	


### M12 MALE STR ETHERNET D-CODE 4-POS CABLE ASSEMBLIES SINGLE ENDED TYPE C PUR

EWS PN	Part Description	Product Image
<a href="#">1SET315304R0000</a>	M12D4-MS-PUR TYPE C GREEN-0.5M	
<a href="#">1SET315305R0000</a>	M12D4-MS-PUR TYPE C GREEN-1.0M	
<a href="#">1SET315306R0000</a>	M12D4-MS-PUR TYPE C GREEN-5.0M	
<a href="#">1SET315308R0000</a>	M12D4-MS-PUR TYPE C GREEN-2.0M	


### M12 MALE R/A ETHERNET D-CODE 4-POS CABLE ASSEMBLIES SINGLE ENDED TYPE B PVC

EWS PN	Part Description	Product Image
<a href="#">1SET315322R0000</a>	M12D4-MR-PVC TYPE B-0.5M	
<a href="#">1SET315323R0000</a>	M12D4-MR-PVC TYPE B-1.0M	
<a href="#">1SET315324R0000</a>	M12D4-MR-PVC TYPE B-5.0M	
<a href="#">1SET315326R0000</a>	M12D4-MR-PVC TYPE B-2.0M	


### M12 MALE R/A ETHERNET D-CODE 4-POS CABLE ASSEMBLIES SINGLE ENDED TYPE C PUR

EWS PN	Part Description	Product Image
<a href="#">1SET315340R0000</a>	M12D4-MR-PUR TYPE C GREEN-0.5M	
<a href="#">1SET315341R0000</a>	M12D4-MR-PUR TYPE C GREEN-1.0M	
<a href="#">1SET315342R0000</a>	M12D4-MR-PUR TYPE C GREEN-5.0M	
<a href="#">1SET315344R0000</a>	M12D4-MR-PUR TYPE C GREEN-2.0M	

### M12 MALE STR- MALE STR ETHERNET D-CODE 4-POS CABLE ASSEMBLIES DOUBLE ENDED TYPE B PVC

EWS PN	Part Description	Product Image
<a href="#">1SET315358R0000</a>	M12D4-MS-MS-PVC TYPE B-0.5M	
<a href="#">1SET315359R0000</a>	M12D4-MS-MS-PVC TYPE B-1.0M	
<a href="#">1SET315360R0000</a>	M12D4-MS-MS-PVC TYPE B-5.0M	
<a href="#">1SET315362R0000</a>	M12D4-MS-MS-PVC TYPE B-2.0M	


### M12 MALE STR - MALE STR ETHERNET D-CODE 4-POS CABLE ASSEMBLIES DOUBLE ENDED TYPE C PUR

EWS PN	Part Description	Product Image
<a href="#">1SET315377R0000</a>	M12D4-MS-MS-PUR TYPE C GREEN-0.5M	
<a href="#">1SET315378R0000</a>	M12D4-MS-MS-PUR TYPE C GREEN-1.0M	
<a href="#">1SET315379R0000</a>	M12D4-MS-MS-PUR TYPE C GREEN-5.0M	
<a href="#">1SET315381R0000</a>	M12D4-MS-MS-PUR TYPE C GREEN-2.0M	




## ENTRELEC M8/M12/RJ45 CATALOG

### M12 MALE STR - MALE R/A ETHERNET D-CODE 4-POS CABLE ASSEMBLIES DOUBLE ENDED TYPE B PVC

EWS PN	Part Description	Product Image
<a href="#">1SET315395R0000</a>	M12D4-MS-MR-PVC TYPE B-0.5M	
<a href="#">1SET315396R0000</a>	M12D4-MS-MR-PVC TYPE B-1.0M	
<a href="#">1SET315397R0000</a>	M12D4-MS-MR-PVC TYPE B-5.0M	
<a href="#">1SET315399R0000</a>	M12D4-MS-MR-PVC TYPE B-2.0M	

### M12 MALE STR - MALE R/A ETHERNET D-CODE 4-POS CABLE ASSEMBLIES DOUBLE ENDED TYPE C PUR

EWS PN	Part Description	Product Image
<a href="#">1SET315413R0000</a>	M12D4-MS-MR-PUR TYPE C GREEN-0.5M	
<a href="#">1SET315414R0000</a>	M12D4-MS-MR-PUR TYPE C GREEN-1.0M	
<a href="#">1SET315415R0000</a>	M12D4-MS-MR-PUR TYPE C GREEN-5.0M	
<a href="#">1SET315417R0000</a>	M12D4-MS-MR-PUR TYPE C GREEN-2.0M	

### M12 X-CODE FIELD INSTALLABLE CONNECTOR

With the M12 X-code field installable connector, installers and machinery makers can make a Cat6A connection termination error free and tool-less, faster than alternative standard data connector solutions.

With only two parts the M12 X-code FI connector is easy to install in the field without the chance of dropping parts into places where they can not be recovered from.

The cable leads can be stripped at arbitrary length (so no measuring upfront required) and will be terminated for optimal performance. This unique standardized tool-less connector series enables you to fasten assembly time to the cable and cable braid.

With the final closing of the connector, an error free 10 Gb/s connection (Cat6A) with IP67 (optionally IP68) environmental shielding is realized without the usage of any tools.



#### BENEFITS

- Fast, error-free installation because of reliable IDC contacts, automatic wire cut-o function integrated in the connector and tool-less installation
- Terminates most common wire sizes
  - AWG 22-24-26, solid and stranded;
  - Outer Cable Diameter 6.5mm..9.0mm
- Visible inspection of cable braid and wire assignment possible before final connector assembly

#### APPLICATIONS

- PLC
- Servo drive
- Industrial ethernet switches
- Industrial wireless access points
- Industrial machinery
- Robotics

#### MECHANICAL

- Integrated cable strain relief (100N).
- Operating temperature range -40°C to +85°C.
- Number of mating cycles > 100.
- Assembly of wires from AWG 22 up to AWG 26
- Re-assembly; 22AWG up to 3 times, AWG24/26 up to 7 times

#### KEY FEATURES

- Insulation Displacement Contacts (IDC)
- Automatic wire cut-o function
- integrated in connector
- Tool-less assembly installation
- Speed up to 10 GB/s

#### MATERIALS

- UL94-V0

#### STANDARDS AND SPECIFICATIONS

- ISO/IEC 61076-2-109
- UL recognition: C Ru US

#### ELECTRICAL

- 4x2 pair, Cat6A, 60V dielectric strength 1,5 kV AC rms (50/60Hz) / 60s between shield and signal contacts according to IEC 60512-2, test 4a
- PoE: IEEE 802.3at, see IEC TR 29125: currents up to 1 A per pair (500 mA per conductor) with all 4 pairs energized

# ENTRELEC M8/M12/RJ45 CATALOG

## PRODUCT OFFERINGS

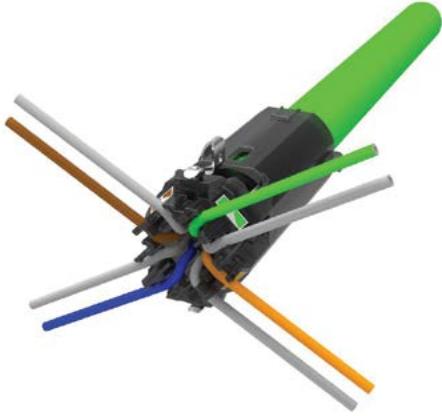
Part Number

Description

1SET310625R0000	M12 X-code field installable cable connector (easy connect)
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Wire assignment

1



PreTermination

2



Connector closure

3



Complete connector

4



## ODVA VARIANT 1 RJ45 CONNECTORS

The ODVA Variant 1 RJ45 connectors are designed to handle harsh environments.

These products are designed with a rugged housing in either flame-resistant, glass-reinforced PBT or die-cast, nickel-plated zinc, both providing resistance to chemicals and UV radiation. Double-bayonet locking provides IP67 resistance to ingress of dust and water. The connectors also provide durability for various applications. They allow designers to place external ports on their equipment that will be installed in locations both indoors and outdoors.



### BENEFITS

- Provides reliable IP67 protection rate in harsh environments with double bayonet locking
- Bulkhead receptacle mounts to either outside or inside panel cutout for design flexibility
- Wire-side components maintain environmental ratings when engaged with panel mounted version

### APPLICATIONS

- Industrial data network systems
- Automation systems
- Renewable energies
- Test devices and instruments
- Fiber to the home / fiber to the antenna
- Process control

### MECHANICAL

- ODVA variant 1 rated connector
- IP67 rated
- Plastic and metal versions available
- Bayonet style design for quick connect
- Cap available to disconnect port and maintain environmental qualifications

### KEY FEATURES

- Bayonet locking provides reliable sealing in harsh environments
- RJ45 connections that are rated to CAT5E
- UV-resistant
- Chemical resistant
- Sealed IP67 solution in metal or plastic

### MATERIALS

- PBT GF UL 94 V-0
- Housing material - Zinc die cast
- Plating of housing - Nickel plated

### STANDARDS & SPECIFICATIONS

- Product UL approved E202784
- IEC 60603-7

### ELECTRICAL

- Meets RJ45 connector standard electrical specification
- Dielectric with standing voltage signal 1000 V DC 60sec.

### PART NUMBER

Part Number	Description
<a href="#">1SET316001R0000</a>	RJ45 CAT5e panel mount socket(PBT)
<a href="#">1SET316002R0000</a>	RJ45 protection cap (PBT)
<a href="#">1SET316003R0000</a>	RJ45 CAT5e panel mount socket
<a href="#">1SET316004R0000</a>	IDC plug, PBT
<a href="#">1SET316005R0000</a>	IDC plug, Die Cast
<a href="#">1SET316006R0000</a>	RJ45 protection cap

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