COMMSCOPE®

Ruggedized connectivity solution for harsh and industrial environments

Preparing for a network evolution in industrial revolution

The demand and need for enhanced connectivity solutions continues to grow and expand into areas outside the normal office environment. Whether the organization is utility, pharmaceutical, manufacturing, military, automotive, or automation, all need to take steps to 'bullet proof' their network infrastructures to deliver bandwidth, flexibility, robustness, security and ease of moves, adds and changes.

Industrial operations of all sizes and sectors, from heavy to light industries and from process to flow plants, are under intense pressure to increase efficiency. A well-designed connectivity solution can deliver the security, robustness, flexibility and manageability that industrial operations require to meet their environmental needs. From the front office to the back office and from the shipping dock to the production floor, the cabling infrastructure and network that uses it, can help industrial organizations increase workflow, improve production yields and solve problems in a quicker time frame.

The drivers for ruggedized connectivity for harsh environments include:

- A need to efficiently migrate to speeds from 10 Mb/s and 100 Mb/s up to 1 Gb/s and beyond
- A need to quickly and easily connect and protect networks
- A need to most efficiently support multiple connectivity technologies (Category 5e, Category 6, fiber in future release)
- High resistance to dust and dirt
- High resistance to water and humidity
- A need to increase reliability of network operations
- A need to reduce recurring operational and maintenance costs

Deploying cabling in the industrial environment

Just as complex factory automation systems require careful planning, so too does cabling in any harsh environment. Many industrial processes generate significant amounts of heat, dust, humidity, corrosive fluids, gases and/or mechanical forces during the manufacturing processes, and these represent significant threats to any cable plant.

Couple this with the growth of Industrial Ethernet, the benefits of ruggedized Category 5e and 6 connectivity solutions become clear. In this environment these ruggedized solutions offer significant advantages over alternative distribution systems such as:

- High capacity
- Smaller and lighter than ruggedized enclosure alternatives
- Resistant to unauthorized tapping and disconnection
- Supports most network services
- Easy to engineer and maintain
- Highly resistant to interference from heat, humidity, dust and water ingress
- Excellent growth and applications upgrade potential

These days, simply having information isn't enough. You need to be able to access it, integrate it and deliver it – and make it work for you. That's why a reliable, robust cabling infrastructure is a real strategic advantage. And that's where CommScope and its SYSTIMAX® Solutions brand comes in.

SYSTIMAX solutions supports connectivity solutions in industrial environments with products of high quality and performance. Industrial networks require re-arrangement flexibility to accommodate moves and/or changes and to enable users to administer and maintain the network. The connectivity solutions used in laboratories, factory floors, warehouse locations and other harsh environments are critical to achieve flexibility and ease of use.

SELECT – CONNECT – PROTECT

The SYSTIMAX Ruggedized Connectivity Solution is designed to support applications such as military telecommunications equipment, utility instrumentation panels, pharmaceutical laboratories and equipment, Industrial Ethernet sensors and factory floor automation.

Features

- Audible, tactile and visual confirmation of engagement
- Avoids accidental disconnects
- Resistant to water, dust exposure and humidity
- Mechanical cable strain, flex and impact relief
- Robust keying of outlet housing to faceplate

Outlet housing

The modular design of the SYSTIMAX ruggedized outlet housing assembly accepts a standard SYSTIMAX M-Series PowerSUM (Category 5e) or GigaSPEED® XL (Category 6) outlet and can be mounted in an appropriately sized aperture, or in a SYSTIMAX corrosion-resistant faceplate that can be mounted to a standard-sized single or double wall outlet box.

Ordering information

Product Code	Description	Material ID
Outlet housing		
MIR-RJ45	M-Series Ruggedized Receptacle – RJ45	760042960
MIB-2	2 Port Industrial Box	760080820

Plug assembly

The SYSTIMAX ruggedized plug assembly is preassembled to a SYSTIMAX GS8E Category 6 patch cord. The plug assembly provides a seal with the cord, as well as strain, flex and impact relief. The patch cords can be configured and ordered using the standard SYSTIMAX Copper Patch Cord (CPC) Product Identifier.

Ordering information

Product Code	Description	CPC Code
Plug assembly		
GS8E-IP-C	GS8E-IP Ruggedized Plug to GS8E, Coiled Strain Relief	CPCC312
GS8E-IP-C	GS8E-IP Ruggedized Plug to Unterminated, Coiled Strain Relief	CPCC412
GS8E-IP-C	GS8E-IP Ruggedized Plug to Ruggedized Plug, Coiled Strain Relief	CPCCC12
GS8E-IP-D	GS8E-IP Ruggedized Plug to GS8E, Domed Strain Relief	CPCD312
GS8E-IP-D	GS8E-IP Ruggedized Plug to Unterminated, Domed Strain Relief	CPCD412
GS8E-IP-D	GS8E-IP Ruggedized Plug to Ruggedized Plug, Domed Strain Relief	CPCDD12
GS8E-IP-C-D	GS8E-IP Ruggedized Plug (Coiled Strain Releif) to Ruggedized Plug, Domed Strain Relief	CPCCD12

**Standard color: Dark Gray. Standard configurable length is 1ft to 100ft. Ordering Material ID of GS8E-IP Ruggedized Plug to GS8E, Coiled Strain Relief, Dark Gray Cord³ge, 7ft is: CPCCC12-03F007*

Protective cap

The SYSTIMAX ruggedized protective caps can be used to protect unused outlets or to seal an outlet during wash down periods when the outlet and plug may be disconnected. The protective caps feature a retention chain, which prevents them from being misplaced when not in use.

Ordering information

Product Code	Description	Material ID
Protective cap		
MIR-CAP	Ruggedized Receptacle – Cap	760042978

Faceplates

The SYSTIMAX ruggedized stainless steel faceplates offer a protective seal from moisture and debris. The faceplates are available in 1-, 2- and 4-port options with a rear sealing gasket.

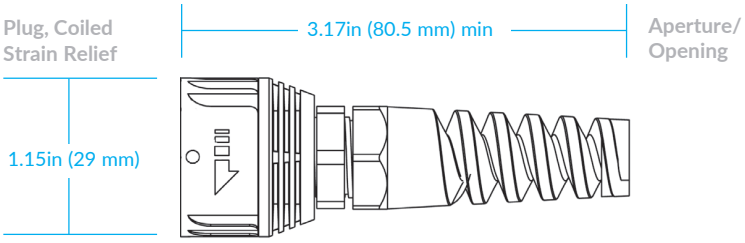
Ordering information

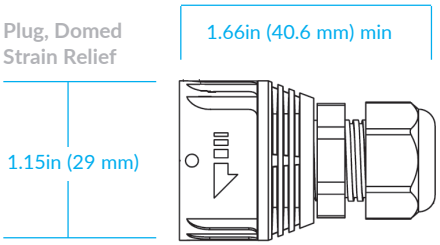
Product Code	Description	Material ID
Protective cap		
IR11SP	Faceplate – Single Gang – 1 port – Stainless Plate	760042994
IR12SP	Faceplate – Single Gang – 2 port – Stainless Plate	760043000
IR22SP	Faceplate – Double Gang – 2 port – Stainless Plate	760043026
IR24SP	Faceplate – Double Gang – 4 port – Stainless Plate	760043018

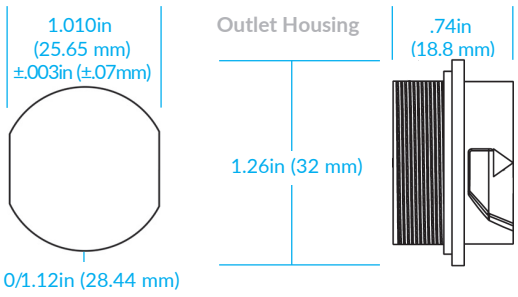
Specifications

Physical Specifications	
Faceplate Width:	2.75 in (69.9 mm) single gang 4.56 in (115.8 mm) double gang
Faceplate Height:	4.5 in (114.3 mm)

Mechanical and Environmental Specifications	
Material:	High Impact Plastic
Storage Temperature:	-13°F to 185°F (-25°C to 85°C)
Operation Temperature:	14°F to 140°F (-10°C to 60°C)
UL and cUL Listed	







Everyone communicates. It's the essence of the human experience. *How* we communicate is evolving. Technology is reshaping the way we live, learn and thrive. The epicenter of this transformation is the network—our passion. Our experts are rethinking the purpose, role and usage of networks to help our customers increase bandwidth, expand capacity, enhance efficiency, speed deployment and simplify migration. From remote cell sites to massive sports arenas, from busy airports to state-of-the-art data centers—we provide the essential expertise and vital infrastructure your business needs to succeed. The world's most advanced networks rely on CommScope connectivity.

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Visit our website or contact your local CommScope representative for more information.

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