

» Industrial Ethernet Cable Solutions



Industrial automation systems are undergoing dramatic transformations that require businesses to adopt new strategies for industrial Ethernet. With the transition to Ethernet-connected controllers, computers, high speed motion control, cameras and power electronics, past industrial network practices may not be applicable, and new approaches are necessary. To address this migration, the design, specification, installation and testing of Ethernet network cabling systems need closer examination.

Please reference Panduit's "Technology Brief" for more on cabling infrastructure methods and consult www.industrial-ip.org for additional information.

Ethernet cabling in manufacturing environments is deployed using two distinct methods:

» Structured Cabling

Adopted from IT in the enterprise down to the manufacturing machine or process equipment

- Copper or fiber cable terminated with jacks or adaptors, respectively
- Connected by patch cords to active equipment
- Systematically lays out the cable management necessary for communications - including voice, data, video and control, for today and the future

» Point-to-Point Cabling

In use for over 25 years in manufacturing to connect proprietary control networks, and now migrating to Ethernet-connected devices

- Copper or fiber cable with field-terminated plugs
- Directly connected to device or machine ports
- Best suited for control panels, on-machine applications, high flex applications and some device-level network topologies

When assessing your cabling network topology, General Cable and Panduit can help you determine the best PanGen® connectivity for your Ethernet industrial automation application.

Whatever your needs, we have you covered. Whether it's Category 5e, 6 or 7 cabling, unshielded, shielded, armored or outside plant, our PanGen® offering of industrial Ethernet product is the perfect choice for an imperfect environment.



Part Number	Product Construction				Conductor Type	Industrial-Grade Jacket Type	600 V AWM	CMR
	Category	Pairs	Shielded	Unshielded				
CATEGORY 5e CABLE								
ISFCH5C02A**-XG	5e - SF/UTP	2	•		Stranded	TPE	•	
ISFX5502A*-LED	5e - SF/UTP	4	•		Stranded	PUR		
ISFCH5C04A**-XG	5e - SF/UTP	4	•		Stranded	TPE	•	
GCR1407	5e - SF/UTP Enhanced	4	•		Solid	PVC	•	•
GCR1403	5e - F/UTP	2	•		Solid	PVC	•	•
GCR1419	5e - F/UTP	4	•		Solid	PVC		•
IFC5C04BBL-CEG	5e - F/UTP	4	•		Stranded	PVC		
GCR1405	5e - F/UTP Enhanced	4	•		Solid	PVC	•	•
GCR1402	5e - UTP	2		•	Solid	PVC	•	•
GCR1404	5e - UTP	4		•	Solid	PVC	•	•
GCR1410	5e - UTP, Armored	4		•	Solid	Interlocked Armor	•	•
GCR1408	5e - UTP, PLTC	4		•	Solid	PVC	•	•
IUC5C04ABL-CEG	5e - U/UTP	4		•	Stranded	PVC		
5136100	5e - OSP	4		•	Solid	OSP - Halogen Free		
5136101	5e - OSP, Armored	4		•	Solid	OSP - Halogen Free Armor		
CATEGORY 6 CABLE								
ISX6004A*-LED	6 - S/FTP	4	•		Stranded	Flame-Retardant and Halogen Free (PUR)		
GCR1452	6 - F/UTP	4	•		Solid	PVC	•	•
IFC6C04BBL-CEG	6 - F/UTP	4	•		Stranded	PVC		
GCR1440	6 - UTP	4		•	Solid	PVC		•
GCR1450	6 - UTP Enhanced	4		•	Solid	PVC	•	•
IUC6C04ABL-CEG	6 - U/UTP	4		•	Stranded	PVC		
7136100	6 - OSP	4		•	Solid	OSP - Halogen Free		
CATEGORY 7 CABLE								
PSM7004*-KED	7 - S/FTP	4	•		Stranded	Oil- and Fuel-Resistant, LSZH		
PSM7004*-KEM	7 - S/FTP	4	•		Stranded	Oil- and Fuel-Resistant, LSZH		
PSMD7004*-LED	7 - S/FTP	4	•		Stranded	Oil-, Fuel-, UV- and Mud-Resistant LSZH (SHF2)		
PSMDA7004*-LED	7 - S/FTP	4	•		Stranded	Stainless Steel Armor and Oil-, Fuel-, UV- and Mud-Resistant, Halogen Free, Fire-Retardant LSZH (SHF2)		

Call your Panduit or General Cable sales representative today and ask for PanGen® Industrial Automation Connectivity.

www.pangensolutions.com

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