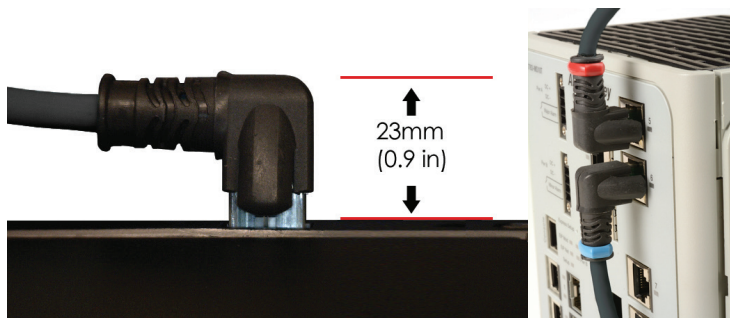
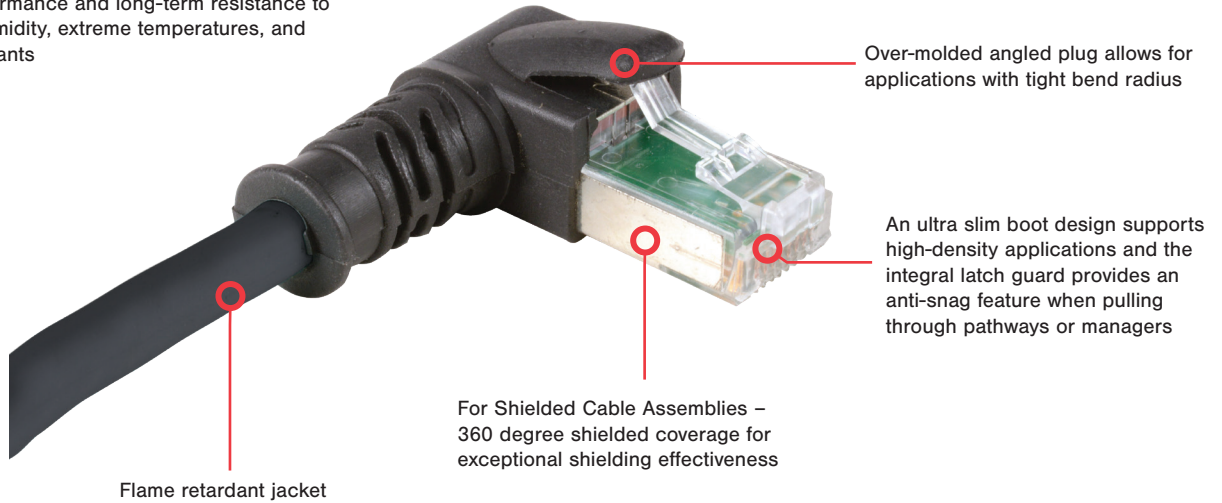


# Ruggedized Cable Assemblies

## Right & Left Angled Ruggedized Cable Assemblies

Siemon over-molded 90 degree RJ45 patch cables are designed for low profile applications where space is a premium. Industrial control panels and enclosures are typically shallow leaving little available space for equipment and the proper bend radius that's required for the network cables. Right and left angle options are available providing machine builders and integrators more flexibility when designing their systems. These angled RJ45 Cat 5e cable assemblies are specifically designed to perform above the current IEC, TIA and ODVA Ethernet standards and provide a highly reliable network connection in harsh environments.

Siemon modular plugs exceed ANSI/TIA-1096-A and IEC 60603-7 specifications and have 50 micro inches minimum of gold plating over nickel. The result is superior transmission performance and long-term resistance to corrosion from humidity, extreme temperatures, and airborne contaminants



### Standards Compliance

- ANSI/TIA-568.2-E
- ISO/IEC 11801 Ed 2.2
- IEEE802.3af (PoE)
- IEEE802.3at (PoE+)
- UL 1863 and CSA-C22.2 No.1824-M90
- IEC-60603-7
- ODVA

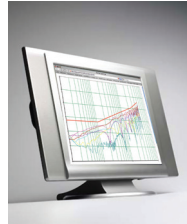
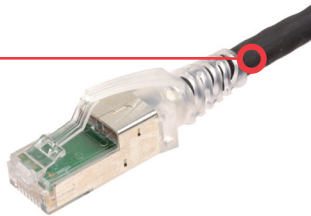


Data | Power | Reach | Delivered

# Straight Ruggedized Cable Assemblies

Siemon straight ruggedized cable assemblies are designed for high temperature applications and rapid changes of temperature. Our TPE jacket with straight and angled connectors and PUR jacket assemblies with straight RJ45 connectors have been successfully tested to 75° C operating temperature, as network equipment functions at this elevated temperature. Standard patch cords operate at a maximum of 60° C. These robust cable jacket types also protect data from industrial elements like noise, chemicals and mechanical extremes. Our assemblies with angled connectors also perform above the current IEC, TIA and ODVA standards. TPE jacketed assemblies are highly flexible for those applications requiring high levels of mechanical stress.

TPE jacket cable assemblies allow for operating temperatures of 75° C



Assemblies are 100% factory tested for in-field reliability



**Color Coded Clips**  
Removable clips allow field color coding even when cords are connected

## Performance Specifications

### Electrical – General

<b>Contact Resistance</b>	10 mΩ
<b>Input to Output Resistance</b>	200 mΩ
<b>Min. Dielectric Withstand Voltage</b>	1000 Volts AC peak contact to contact 1500 Volts contact to shield
<b>Insulation Resistance</b>	500 mΩ
<b>PoE</b>	Suitable for PoE and PoE+
<b>Surface Transfer Impedance</b>	< 10 mΩ/m @ 10 MHz

### Mechanical – Plug

<b>Number of Plug Insertion Cycles</b>	2500
<b>Min. Plug Retention Force</b>	50N (11.25 lbs.)
<b>Plug Compatibility</b>	Compatible with RJ45 outlets
<b>Cable to Plug Tensile Strength (min)</b>	89N (20 lbs.)

### Mechanical – General

<b>Operating Temperature</b>	-10 to 75°C, (14 to 167°F)
<b>Flammability Rating</b>	UL94 V-0
<b>Green Features</b>	RoHS, lead free, halogen free, PVC free
<b>Plug Housing Material</b>	Polycarbonate
<b>Contact Materials</b>	50 micro inches gold plating or equivalent
<b>Screen</b>	360 degree enclosure
<b>Marking</b>	P/N, length, performance level, QC

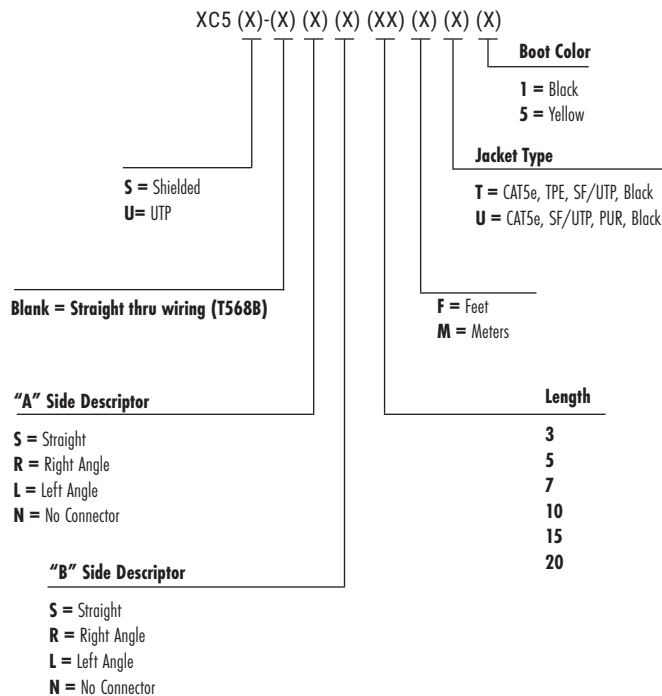
### Cable Features

	Jacket Options	
	TPE	PUR
<b>Low Temperature Flexibility and Brittle Point</b>	Excellent	Excellent
<b>Tear Resistance</b>	Excellent	Excellent
<b>Abrasion and Scruff Resistance</b>	Good	Excellent
<b>Tensile Strength and Toughness</b>	Good	Excellent
<b>Ultraviolet and Weather Resistance</b>	Good	Good
<b>Resistance to Acids</b>	Excellent	Fair
<b>Resistance to Bases</b>	Good	Good
<b>Resistance to Moisture</b>	Excellent	Excellent
<b>Resistance to Petro-Chemicals</b>	Fair	Fair
<b>Flame and Fire Resistance</b>	Good	Fair
<b>Low Smoke, Zero Halogen</b>	No	Yes
<b>High Flexibility</b>	Excellent	Good

# Product Information

Jacket Material	Jacket Type	Assembly Configuration	Number of Conductors	Stranded Wire Size	Cable Jacket Color	Cable Construction	Operating Temperature	Nominal Cable OD	Bend Radius
TPE	CMX	Straight RJ45 to Straight RJ45	8	24AWG	Black	Unshielded	75°C	5.8 mm (0.23")	23.4mm (0.92")
TPE	CMX	Straight RJ45 to Angled RJ45	8	24AWG	Black	Unshielded	75° C	5.8mm (0.23")	23.4mm (0.92")
TPE	CMX	Angled RJ45 to Angled RJ45	8	24AWG	Black	Unshielded	75°C	5.8mm (0.23")	23.4mm (0.92")
TPE	CMX	Straight RJ45 to Straight RJ45	8	26AWG	Black	Shielded	75°C	6.1mm (0.24")	24.4mm (0.96")
PUR	CMX	Straight RJ45 to Straight RJ45	8	26AWG	Black	Shielded	75°C	6.1mm (0.24")	24.4mm (0.96")
PUR	CMX	Straight RJ45 to Angled RJ45	8	26AWG	Black	Shielded	60°C	6.1mm (0.24")	24.4mm (0.96")
PUR	CMX	Angled RJ45 to Angled RJ45	8	26AWG	Black	Shielded	60°C	6.1mm (0.24")	24.4mm (0.96")
PUR	CMX	Straight RJ45 to Straight RJ45	8	24AWG	Black	Unshielded	60°C		

# Ordering Information



## Color Coding Clips

Part#	Description
-------	-------------

CLIP-(XX) Color Coding Clip, bag of 25

### Use (XX) to specify color:

- 01 = Black
- 02 = White
- 03 = Red
- 04 = Gray
- 05 = Yellow
- 06 = Blue
- 07 = Green
- 08 = Violet
- 09 = Orange

Color coding clips can be used with TPE and PUR cable types.



SCAN TO DOWNLOAD SPEC SHEET

Because we continuously improve our products, Siemon reserves the right to change specifications and availability without prior notice.

**North America**  
P: (1) 860 945 4200

**Mexico**  
P: (521) 556 387 7708/09/10

**Latin America**  
P: (571) 657 1950/51/52

**Europe**  
P: (44) 0 1932 571771

**Asia Pacific**  
P: (61) 2 8977 7500

**Siemon OEM Technologies**  
P: (1) 860 945 4213  
www.siemon.com/OEM

**China**  
P: (86) 215385 0303

**India, Middle East & Africa**  
P: (971) 4 3689743

