



Unshielded Ethernet Cable Spool

Description

Rockwell Automation's Cat5e shielded and unshielded cable is designed to supply a reliable network connection in harsh surroundings. The high speed data rate allows more data to be transferred within a shorter period of time. By optimizing balance of twisted pair conductors inside a robust thermoplastic elastomer (TPE) jacket, data is protected from noise, chemicals, and mechanical issues to M₃l₃C₃E₃ environmental protection levels. Two and four pair TPE robotic flex cable is available for flex applications reaching 10 million cycles, as well as a riser PVC cable for standard applications and a plenum PVC cable for air duct applications. All ethernet media components are designed to perform above TIA 568-B.2 and ODVA ethernet standards. Rockwell Automation's Bulletin 1585 ethernet cables are optimized UTP and STP cables in many applications.



Specifications

Certifications	UL Listed and CEC
Conductor Material	Tinned copper stranded
Bend Radius	10 million cycles at 20 x diameter (TPE cable)
Data Rate	Up to 1 Gb/s, Cat 5e
Voltage	300V

Features

- Four- and eight-conductor styles
- Twisted pair unshielded cable types, Cat 5e
- Twisted pairs maintain signal balance through cable to provide high noise immunity and return loss
- Designed to ODVA EtherNet/IP™ specifications and ISO IEC 24702
- Suitable for high noise environments M₃l₃C₃E₃
- Riser PVC cables used for general purpose environments
- TPE robotic cable used for flex applications, transmission-tested to 10 million cycles
- Plenum PVC cable used for air duct applications
- TPE cable meets channel transmission performance to 10 million flexes

Cable and Color Code

Two-Pair	Four-Pair																								
																									
<table border="1"> <tr><td>White/Orange</td><td>▬▬</td></tr> <tr><td>White/Green</td><td>▬▬</td></tr> <tr><td>Orange</td><td>▬</td></tr> <tr><td>Green</td><td>▬</td></tr> </table>	White/Orange	▬▬	White/Green	▬▬	Orange	▬	Green	▬	<table border="1"> <tr><td>White/Orange</td><td>▬▬</td></tr> <tr><td>Orange</td><td>▬</td></tr> <tr><td>White/Green</td><td>▬▬</td></tr> <tr><td>Blue</td><td>▬</td></tr> <tr><td>White/Blue</td><td>▬▬</td></tr> <tr><td>Green</td><td>▬</td></tr> <tr><td>White/Brown</td><td>▬▬</td></tr> <tr><td>Brown</td><td>▬</td></tr> </table>	White/Orange	▬▬	Orange	▬	White/Green	▬▬	Blue	▬	White/Blue	▬▬	Green	▬	White/Brown	▬▬	Brown	▬
White/Orange	▬▬																								
White/Green	▬▬																								
Orange	▬																								
Green	▬																								
White/Orange	▬▬																								
Orange	▬																								
White/Green	▬▬																								
Blue	▬																								
White/Blue	▬▬																								
Green	▬																								
White/Brown	▬▬																								
Brown	▬																								

Product Selection

Jacket Material	Cable Type	No. of Conductors	Jacket Color	Wire Size, AWG	Nominal Outer Diameter	Operating Temperature [C (F)]	Cable Rating	Cat. No.*
Robotic TPE	Unshielded	4 (two pair)	Teal	24	5.6 mm (0.22 in.)	-40...+75 (-40...+167)	Weld splatter, sunlight, and oil resistant; UL CM, CMX; cUL CM; Standard TIA 568-B, high flex rated	1585-C4TB-S100
		8 (four pair)			5.84 mm (0.23 in.)			1585-C8TB-S100
Robotic TPE	Unshielded	8 (four pair)	Red	24	5.84 mm (0.23 in.)	-40...+75 (-40...+167)	UL CMP; cUL CMP; Standard TIA 568-B	1585-C8VB-S100
Plenum								1585-C8MB-S100
Riser PVC	Unshielded	8 (four pair)	Teal	24	5.84 mm (0.23 in.)	-40...+75 (-40...+167)	UL CMR; cUL CMG; Standard TIA 568-B	1585-C8PB-S100

* Replace 100 (100 m) with 300 (300 m) or 600 (600 m) for additional standard cable lengths (example 1585-C4TB-S100 becomes 1585-C4TB-S600).