

## Sealed Industrial Ethernet Circular IP67 RJ45 Connector System

### Description

The sealed circular RJ45 connector system is designed for use in harsh environments. The connector features bayonet coupling mechanism conforming to IEC 61076-3-106 standard. It provides fast but reliable connections in harsh environments. The Connector can be front or rear mounted into a panel with a thickness of up to 3.2mm. The integrated shielded RJ45 Jack and Plug meet EIA/TIA-568B.2 cat. 5e and IEC 11801 specifications. The connector system provides IP67 sealing performance when the connector halves are fully mated or covered. The potted version provides IP67 even under the unmated and uncovered conditions.

Two different versions (Industrial to Industrial and Industrial to Standard) of the RJ45 cat. 5e Ethernet patch cords with various lengths for tough and outdoor applications are also offered. The connectors are available in plastic, metallized plastic, die-cast and full metal versions. The products are **RoHS** compliant.

### Applications

- Industrial Machinery, CNC Machines
- Communication Equipment
- Food and Chemical Process Equipment
- Railway Network System
- Oil Exploration
- Industrial Process Control
- Diagnostic Equipment
- Printers, Display
- Factory Automation, Robotics
- Outdoor Telecom System
- Entertainment
- Video Control, Motion Control

### Electrical Specifications

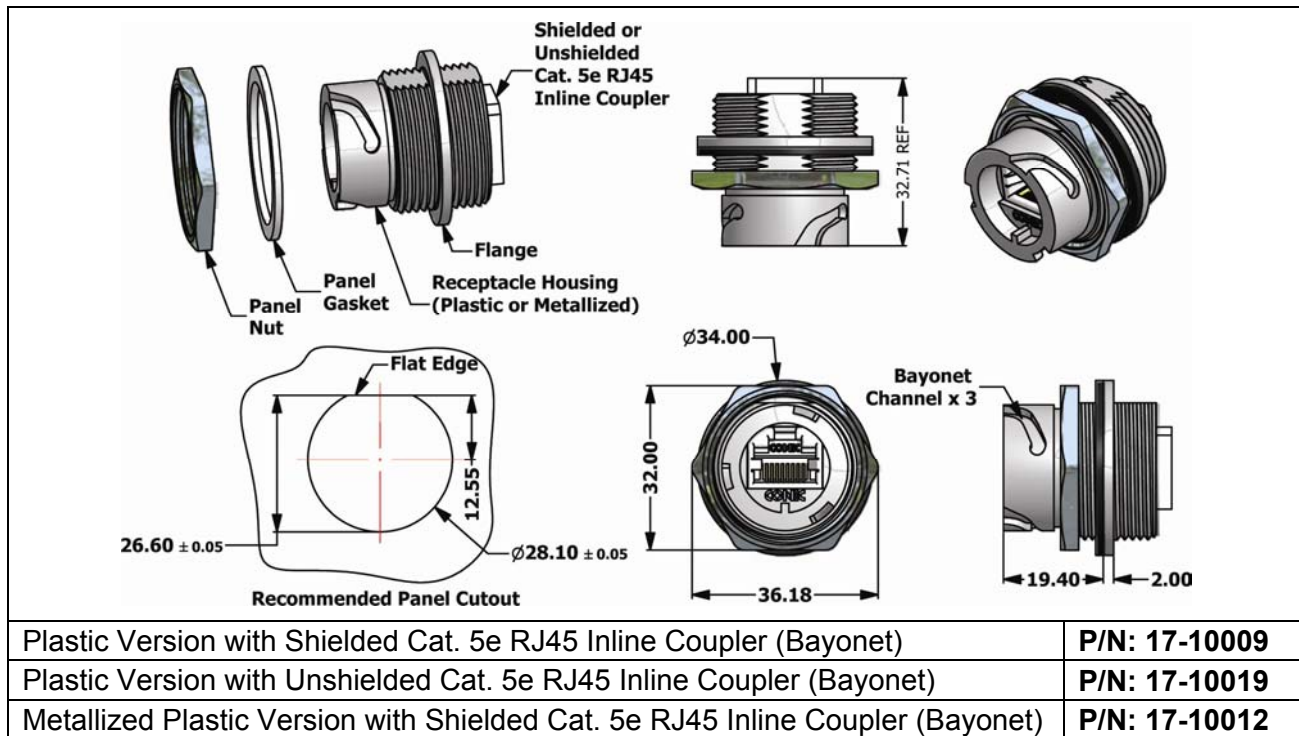
- Meets EIA/TIA-568-B.2 Cat. 5e Specification
- IR: 500M $\Omega$  min. @ 100 VDC
- DWV: 1000 V DC/60s Contact to Contact
- Connector Operating Temperature: -40°C to +85°C
- Contact Resistance: 20m $\Omega$  max.
- Current Rating: 1.2A max. at 25°C
- Working Voltage: 100 V

### Materials and Finish

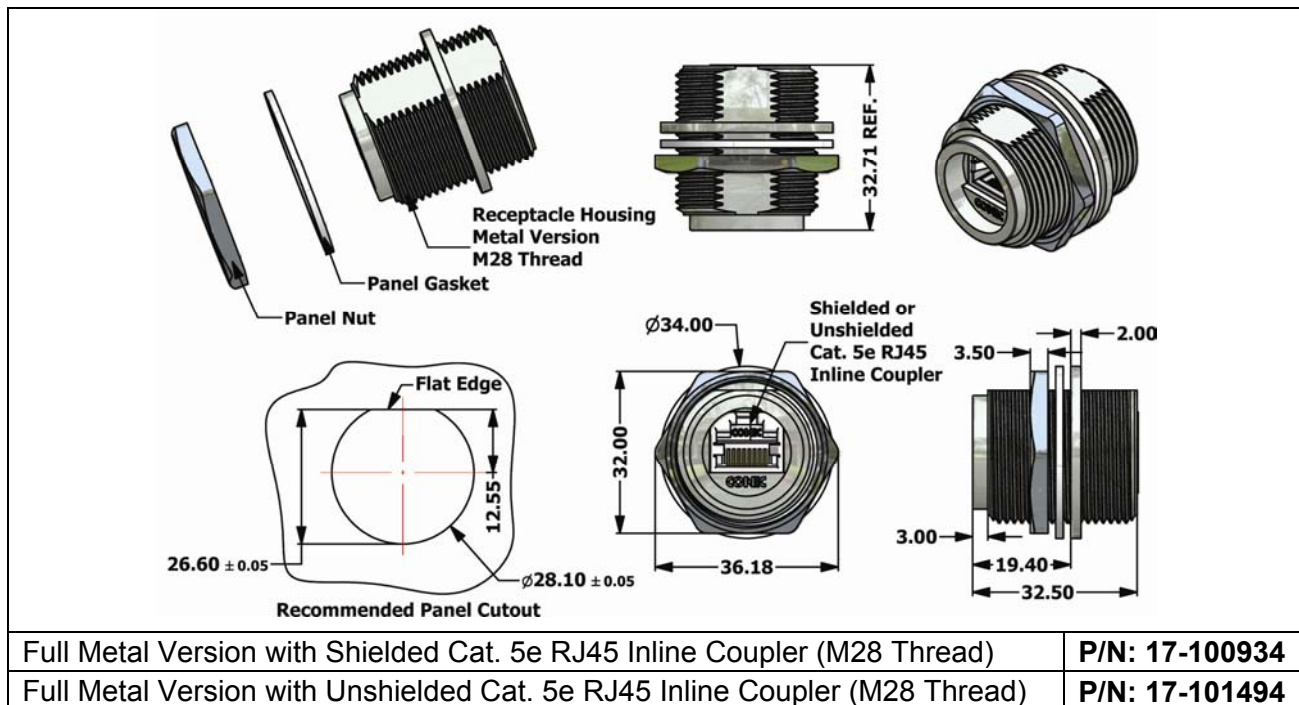
- Receptacle Housing: PBT (Black) or metallized ABS (Nickel plated); UL94 V-0 or Brass (Nickel Plated)
- Panel Nut: Brass, Finish: Nickel Plated
- Panel Gasket: Silicone, Color: White
- RJ45 Jack Metal Shell: Copper Alloy, Finish: Nickel Plated
- RJ45 Jack Housing: PBT (Black), UL94 V-0
- RJ45 Jack Contact: Phosphor Bronze, Finish: 50u" Gold min. over Nickel
- Coupling Ring: PBT (Black) or metallized ABS, UL94 V-0, Die Cast or Brass (Nickel Plated)
- Plug Housing: PBT (Black) or metallized ABS (Nickel plated); UL94 V-0,
- Cable Gland Body: PA (Black) UL94 V-0 or Brass, Nickel Plated
- Cable Gland Seal: NBR, Color: Black
- Cable Gland Insert (Metal Version): Nylon, Color: White
- Interfacial Seal: Silicone, Color: White
- Cover Gasket: Silicone, Color: Red
- RJ45 Plug Metal Shell: Copper Alloy, Finish: Nickel Plated
- RJ45 Plug Housing: Clear Polycarbonate, UL94 V-0
- RJ45 Plug Contact: Phosphor Bronze, Finish: 50u" Gold min. over Nickel
- Protective Cover: PBT (Black) or metallized ABS (Nickel Plated); UL94 V-0 or Brass (Nickel Plated)
- Tether: PE, Color: Black
- Ball Chain and Screw: Copper Alloy, Nickel Plated
- RJ45 Modular Boot: PVC

## Product Overview and Dimensions (in mm)

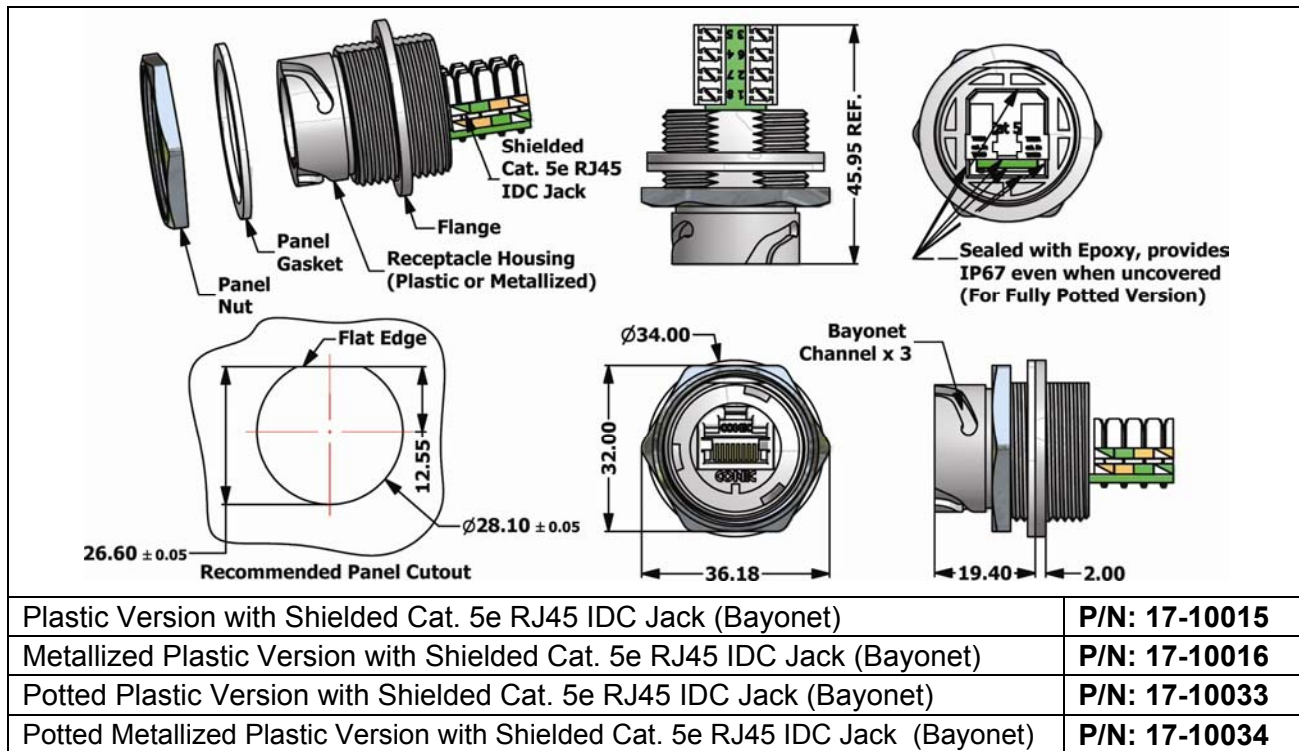
### 1: RJ45 Inline Coupler Receptacle Assembly Kit (Plastic or Metallized Plastic Version with Bayonet Locking Type)



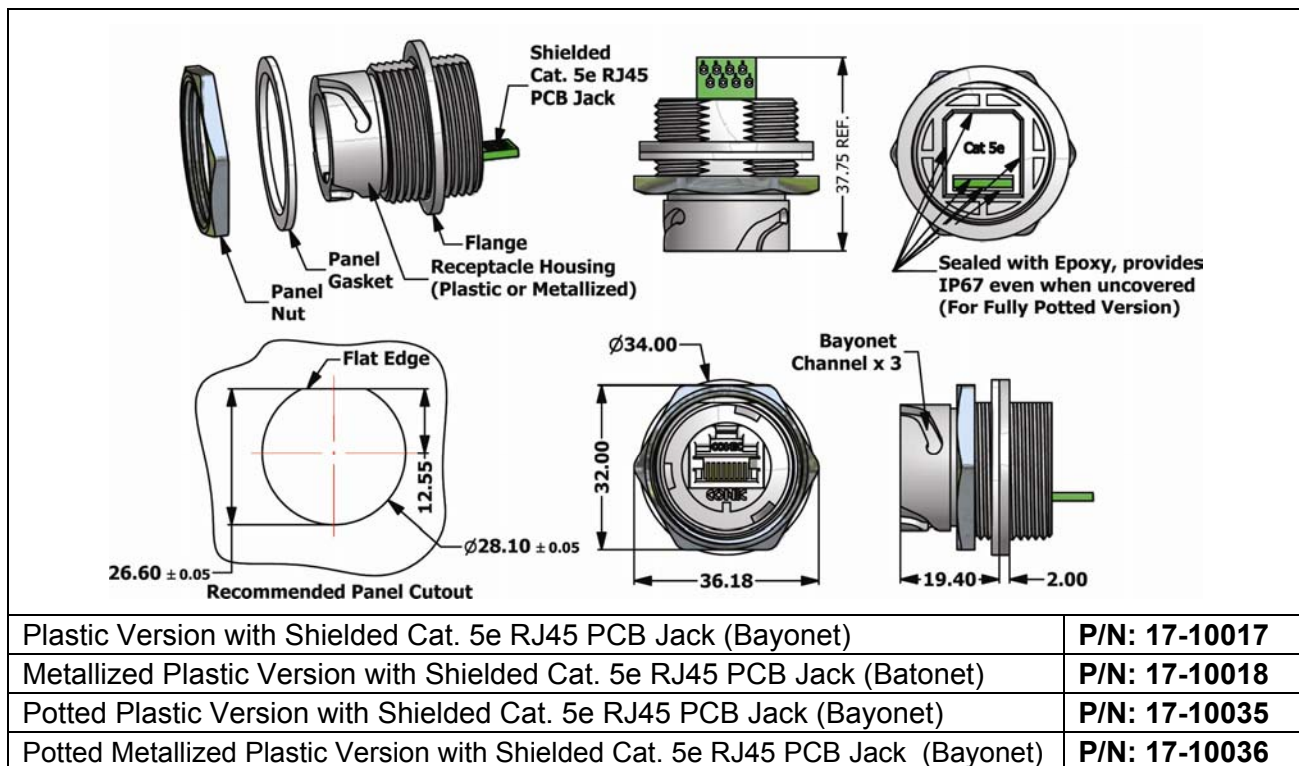
### 2: RJ45 Inline Coupler Receptacle Assembly Kit (Full Metal Version with M28 Thread Screw Type)



### 3: RJ45 IDC Jack Receptacle Assembly Kit (Plastic or Metallized Plastic Version with Bayonet Locking Type)

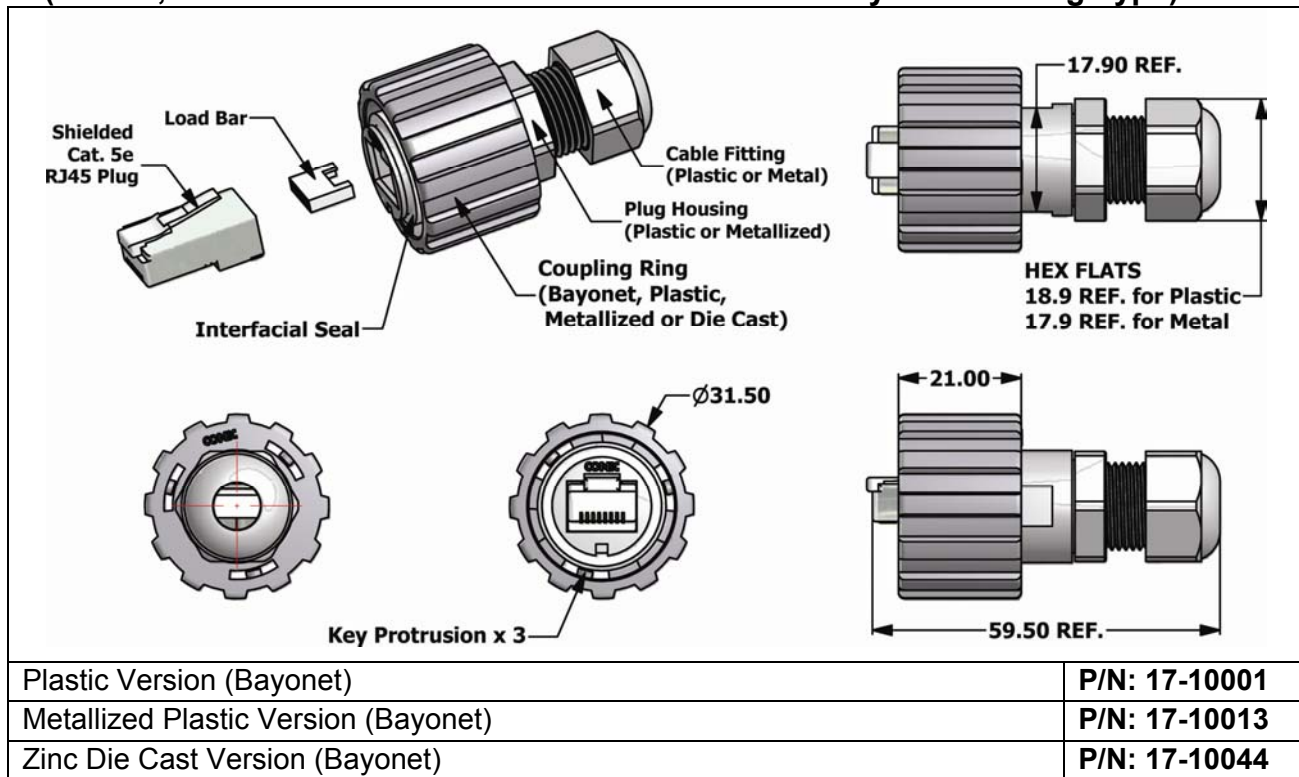


#### 4: RJ45 PCB Jack Receptacle Assembly Kit (Plastic or Metallized Plastic Version with Bayonet Locking Type)

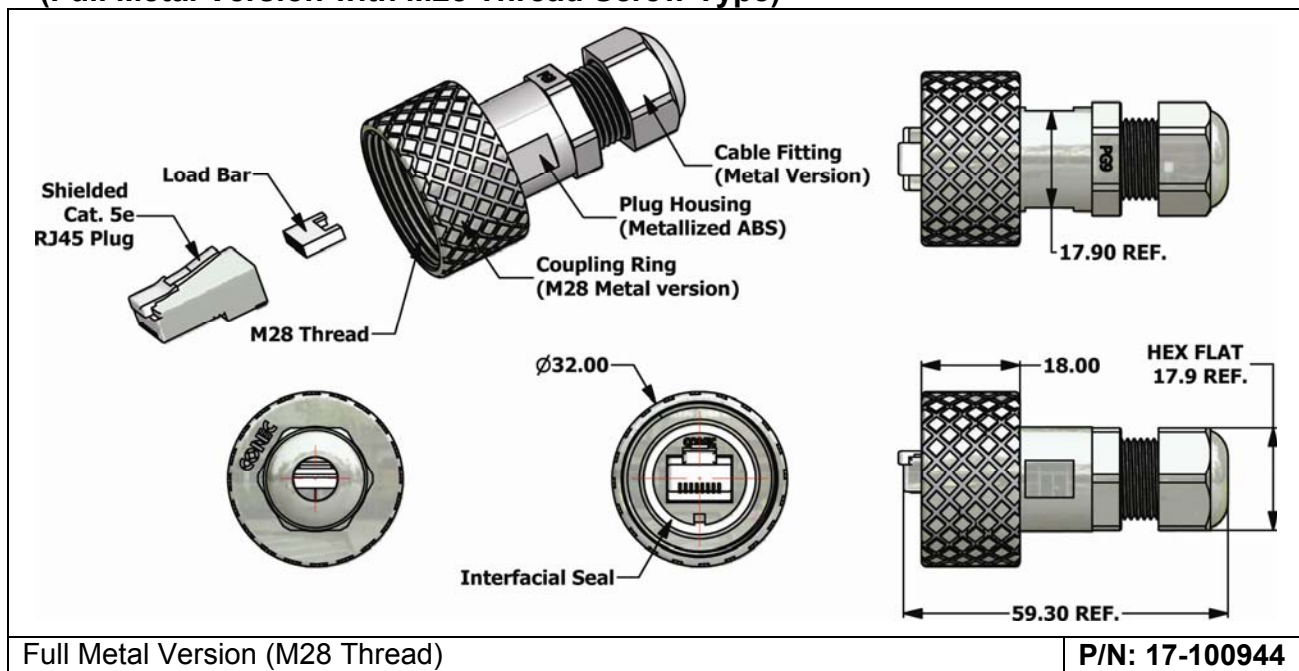




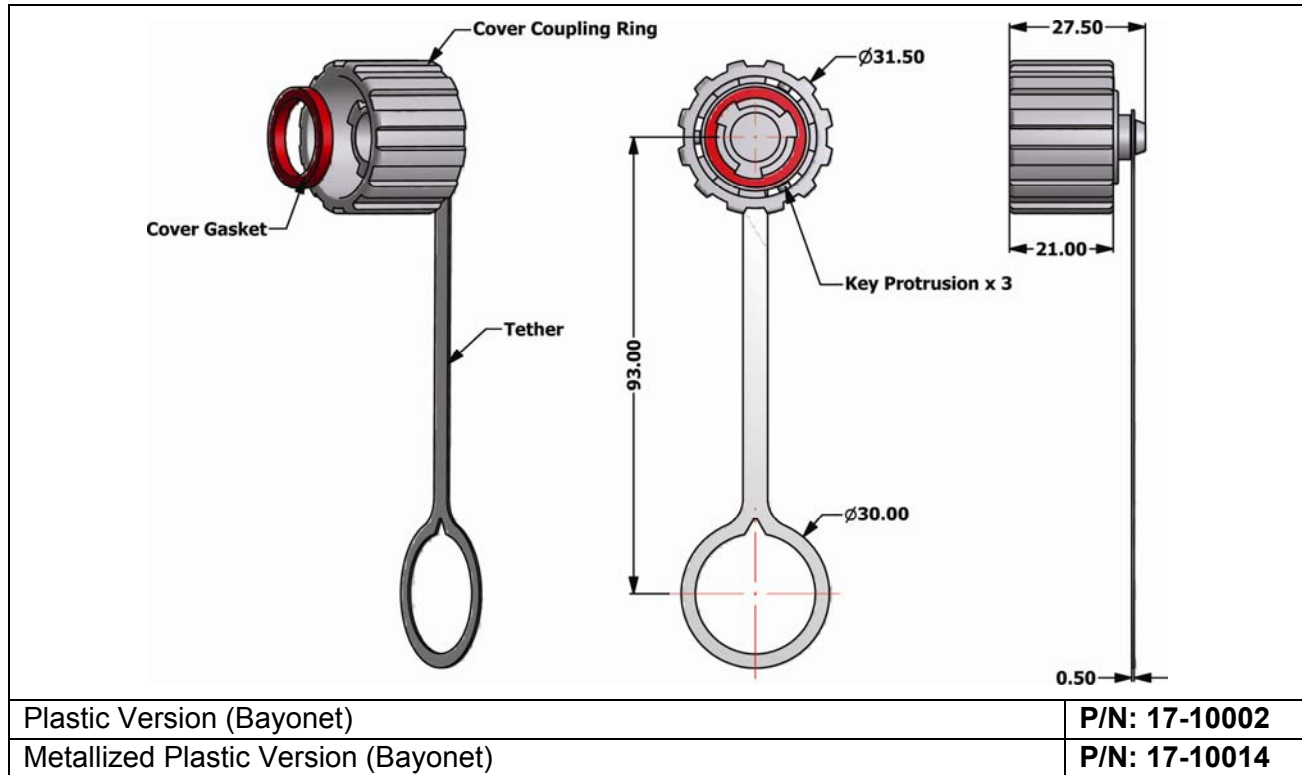
### 5: RJ45 Plug Kit (Plastic, Metallized Plastic or Die-Cast Version with Bayonet Locking Type)



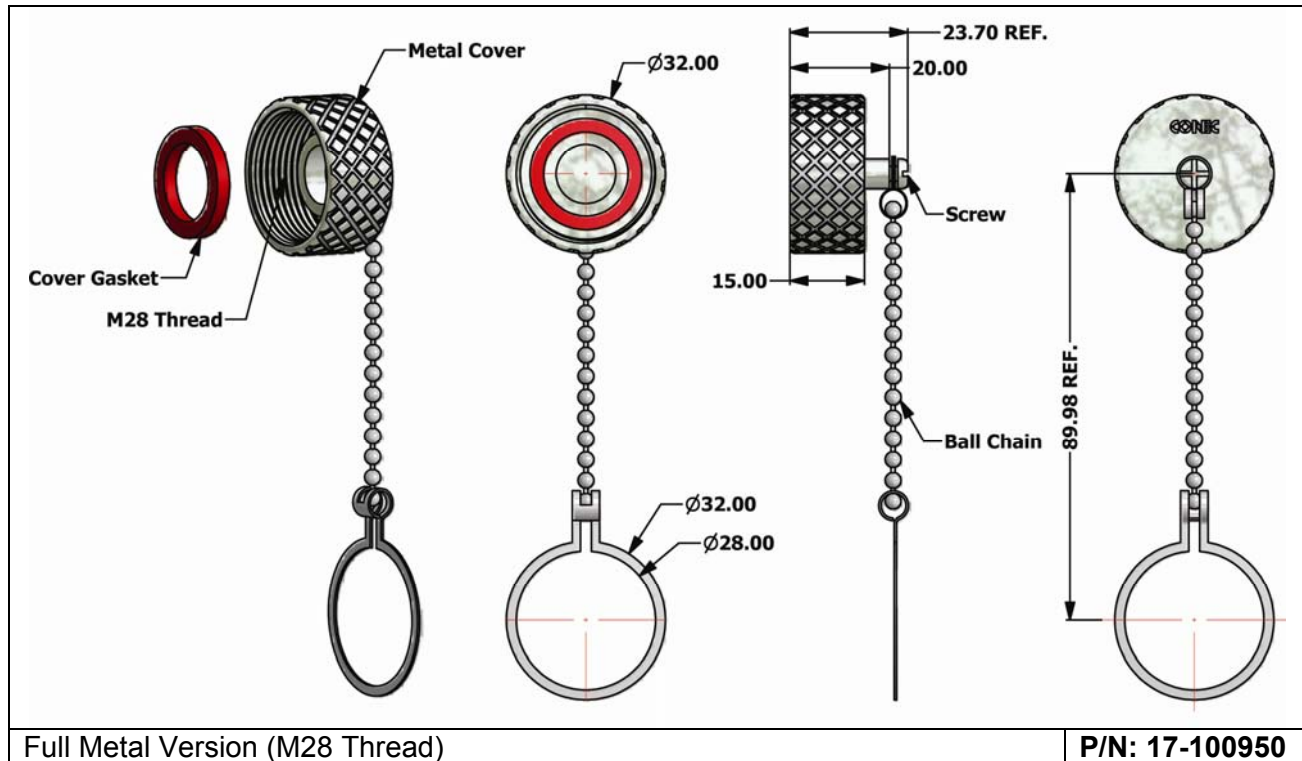
### 6: RJ45 Plug Kit (Full Metal Version with M28 Thread Screw Type)



**7: Protective Cover Assembly  
(Plastic or Metallized Plastic Version with Bayonet Locking Type)**



**7: Protective Cover Assembly  
(Full Metal Version with M28 Thread Screw Type)**



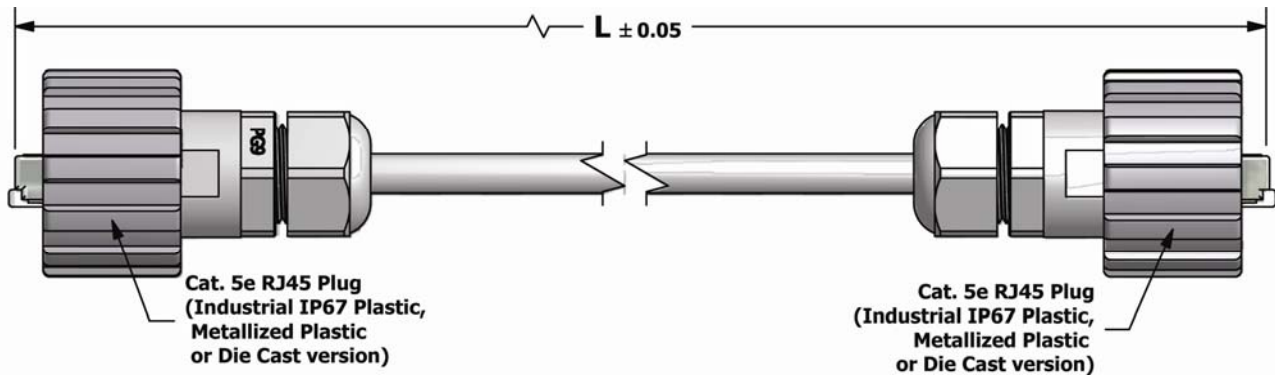
## 8. The Receptacle + Protective Cover Assembly Kit (Plastic or Metallized Plastic Version with Bayonet Locking Type)

Plastic Version with Shielded Inline Coupler + Protective Cover	P/N: 17-10000
Plastic Version with Unshielded Inline Coupler + Protective Cover	P/N: 17-10020
Metallized Plastic Version with Shielded Inline Coupler + Protective Cover	P/N: 17-10011
Plastic Version with Shielded IDC Jack + Protective Cover	P/N: 17-10021
Metallized Plastic Version with Shielded IDC Jack + Protective Cover	P/N: 17-10022
Plastic Version with Shielded PCB Jack + Protective Cover	P/N: 17-10023
Metallized Plastic Version with Shielded PCB Jack + Protective Cover	P/N: 17-10024
Potted Plastic Version with Shielded IDC Jack + Protective Cover	P/N: 17-10037
Potted Metallized Plastic Version with Shielded IDC Jack + Protective Cover	P/N: 17-10038
Potted Plastic Version with Shielded PCB Jack + Protective Cover	P/N: 17-10039
Potted Metallized Plastic Version with Shielded PCB Jack + Protective Cover	P/N: 17-10040

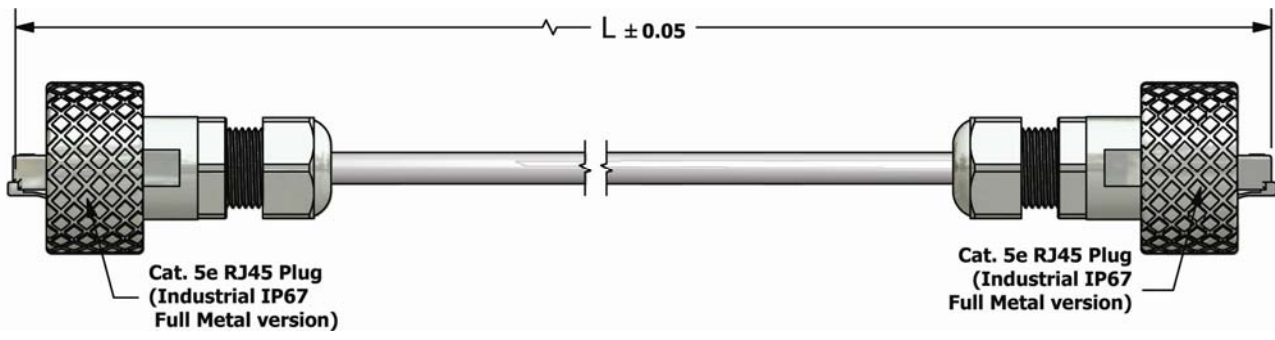
## 9: Cat. 5e RJ45 Cable Strain Relief Kit (Plastic or Metallized Plastic Version with M28 Thread Screw Type)

Plastic Version (M28 Thread)	P/N: 17-100464
Metallized Plastic Version (M28 Thread)	P/N: 17-100474

# **10. The Industrial to Industrial RJ45 Cat. 5e Ethernet Patch Cord (Plastic, Metallized Plastic or Die-Cast Version with Bayonet Locking Type)**

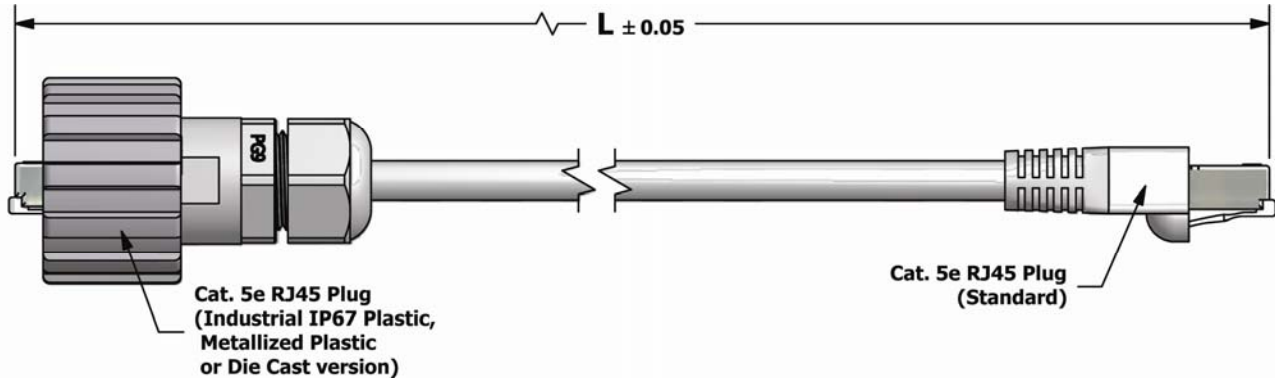
						
L	Part Number					
	Plastic Version		Metallized Plastic Version		Die Cast Version	
	Cat. 5e UTP AWG24, Solid, Black Cable	Cat. 5e <b>Outdoor</b> UTP AWG24, Solid Black Cable	Cat. 5e STP AWG24, Solid, Black Cable	Cat. 5e <b>Outdoor</b> STP AWG24, Solid Black Cable	Cat. 5e STP AWG24, Solid, Black Cable	Cat. 5e <b>Outdoor</b> STP AWG24, Solid Black Cable
<b>2 m</b>	<b>17-10003</b>	<b>17-101144</b>	<b>17-10025</b>	<b>17-101174</b>	<b>17-100514</b>	<b>17-101204</b>
<b>4 m</b>	<b>17-10004</b>	<b>17-101154</b>	<b>17-10026</b>	<b>17-101184</b>	<b>17-100524</b>	<b>17-101214</b>
<b>5 m</b>	<b>17-10005</b>	<b>17-101164</b>	<b>17-10027</b>	<b>17-101194</b>	<b>17-100534</b>	<b>17-101224</b>
Notes: - Special cable lengths are available: please contact factory - UTP: Unshielded Twisted Pair; STP: Shielded Twisted Pair						

# **11. The Industrial to Industrial RJ45 Cat. 5e Ethernet Patch Cord (Full Metal Version with M28 Thread Screw Type)**

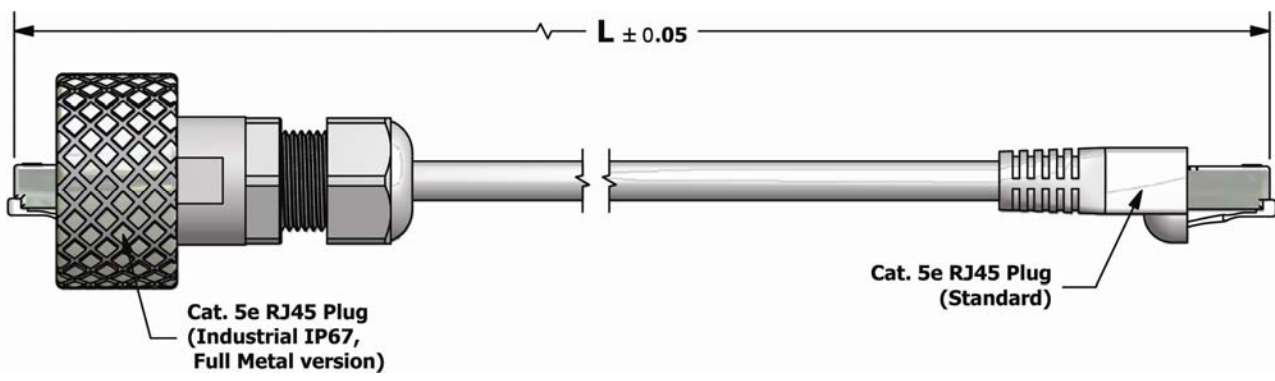
			
L	Part Number		
	Cat. 5e STP 4 Pair, AWG24, Solid Black Cable	Cat. 5e <b>Outdoor</b> UTP 4 pair, AWG24, Solid Black Cable	Cat. 5e <b>Outdoor</b> STP 4 pair, AWG24, Solid Black Cable
<b>2 m</b>	<b>17-100994</b>	<b>17-101084</b>	<b>17-101114</b>
<b>4 m</b>	<b>17-101004</b>	<b>17-101094</b>	<b>17-101124</b>
<b>5 m</b>	<b>17-101014</b>	<b>17-101104</b>	<b>17-101134</b>
Notes: - Special cable lengths are available: please contact factory - UTP: Unshielded Twisted Pair; STP: Shielded Twisted Pair			



## 12. The Industrial to Standard RJ45 Cat. 5e Ethernet Patch Cord (Plastic, Metallized Plastic or Die-Cast Version with Bayonet Locking Type)

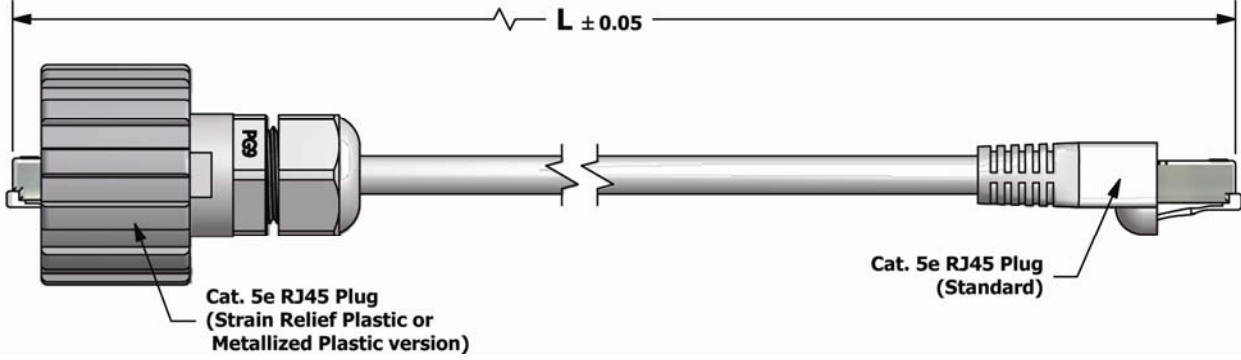
 <p>Cat. 5e RJ45 Plug (Industrial IP67 Plastic, Metallized Plastic or Die Cast version)</p> <p>Cat. 5e RJ45 Plug (Standard)</p> <p><math>L \pm 0.05</math></p>						
L	<b>Part Number</b>					
	Plastic Version		Metallized Plastic Version		Die Cast Version	
	Cat. 5e UTP AWG24, Solid, Black Cable	Cat. 5e <b>Outdoor</b> UTP AWG24, Solid Black Cable	Cat. 5e STP AWG24, Solid, Black Cable	Cat. 5e <b>Outdoor</b> STP AWG24, Solid Black Cable	Cat. 5e STP AWG24, Solid, Black Cable	Cat. 5e <b>Outdoor</b> STP AWG24, Solid Black Cable
2 m	<b>17-10006</b>	<b>17-101234</b>	<b>17-10028</b>	<b>17-101264</b>	<b>17-100544</b>	<b>17-101294</b>
4 m	<b>17-10007</b>	<b>17-101244</b>	<b>17-10029</b>	<b>17-101274</b>	<b>17-100554</b>	<b>17-101304</b>
5 m	<b>17-10008</b>	<b>17-101254</b>	<b>17-10030</b>	<b>17-101284</b>	<b>17-100564</b>	<b>17-101314</b>
Notes: - Special cable lengths are available: please contact factory - UTP: Unshielded Twisted Pair; STP: Shielded Twisted Pair						

## 13. The Industrial to Standard RJ45 Cat. 5e Ethernet Patch Cord (Full Metal Version with M28 Thread Screw Type)

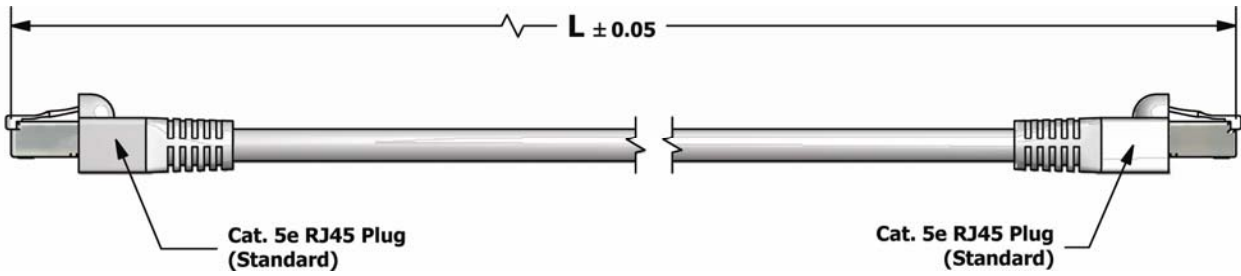
 <p>Cat. 5e RJ45 Plug (Industrial IP67, Full Metal version)</p> <p>Cat. 5e RJ45 Plug (Standard)</p> <p><math>L \pm 0.05</math></p>			
L	<b>Part Number</b>		
	Cat. 5e STP 4 Pair, AWG24, Solid Black Cable	Cat. 5e <b>Outdoor</b> UTP 4 pair, AWG24, Solid Black Cable	Cat. 5e <b>Outdoor</b> STP 4 pair, AWG24, Solid Black Cable
2 m	<b>17-100964</b>	<b>17-101024</b>	<b>17-101054</b>
4 m	<b>17-100974</b>	<b>17-101034</b>	<b>17-101064</b>
5 m	<b>17-100984</b>	<b>17-101044</b>	<b>17-101074</b>
Notes: - Special cable lengths are available: please contact factory - UTP: Unshielded Twisted Pair; STP: Shielded Twisted Pair			



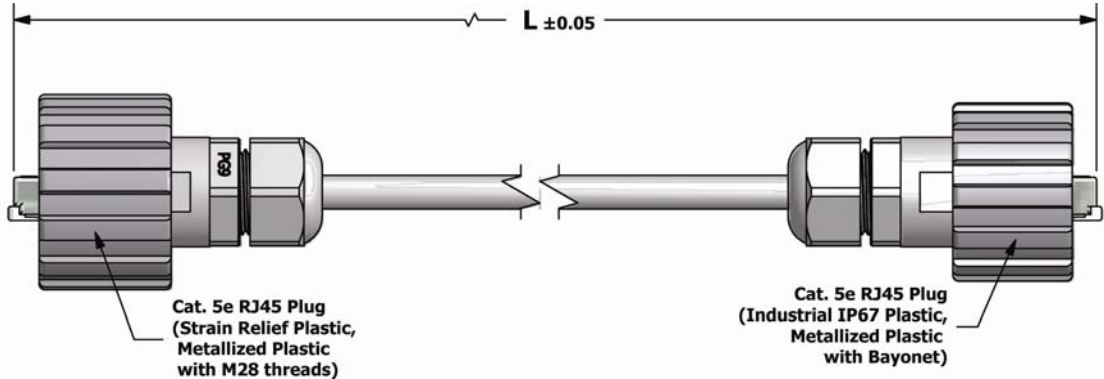
#### 14. The Strain Relief to Standard RJ45 Cat. 5e Ethernet Patch Cord (Plastic or Metallized Plastic Version with M28 Thread Screw Type)

 <p>Cat. 5e RJ45 Plug (Strain Relief Plastic or Metallized Plastic version)</p> <p>Cat. 5e RJ45 Plug (Standard)</p> <p><math>L \pm 0.05</math></p>		
L	Part Number	
	Plastic version with Cat. 5e UTP 4 Pair, AWG24, Solid Black Cable	Metallized Plastic version with Cat. 5e STP 4 pair, AWG24, Solid Black Cable
2 m	17-100574	17-100604
4 m	17-100584	17-100614
5 m	17-100594	17-100624
Notes: - Special cable lengths are available: please contact factory - UTP: Unshielded Twisted Pair; STP: Shielded Twisted Pair		

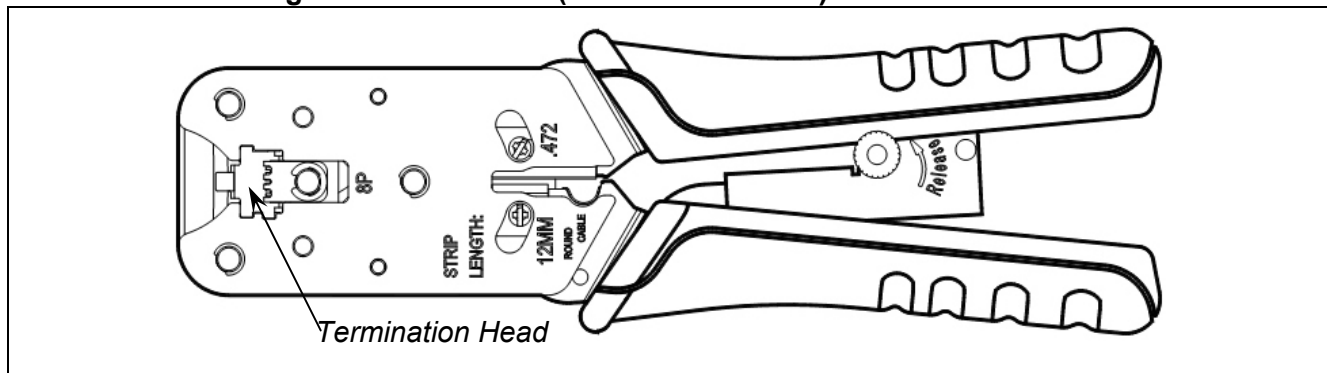
#### 15. The Standard to Standard RJ45 Cat. 5e Ethernet Patch Cord

 <p>Cat. 5e RJ45 Plug (Standard)</p> <p>Cat. 5e RJ45 Plug (Standard)</p> <p><math>L \pm 0.05</math></p>				
L	Part Number			
	Cat. 5e STP 4 Pair, AWG24 Solid Cable	Cat. 5e UTP 4 Pair, AWG24 Solid Cable		
	Black	Black	Blue	Red
2 m	17-101324	17-100654	17-100684	17-100714
4 m	17-101334	17-100664	17-100694	17-100724
5 m	17-101344	17-100674	17-100704	17-100734
L	Part Number			
	Cat. 5e UTP 4 Pair, AWG24 Solid Cable			
	Green	Yellow	White	
2 m	17-100744	17-100774	17-100804	
4 m	17-100754	17-100784	17-100814	
5 m	17-100764	17-100794	17-100824	
Notes: - Special cable lengths are available: please contact factory - UTP: Unshielded Twisted Pair; STP: Shielded Twisted Pair				

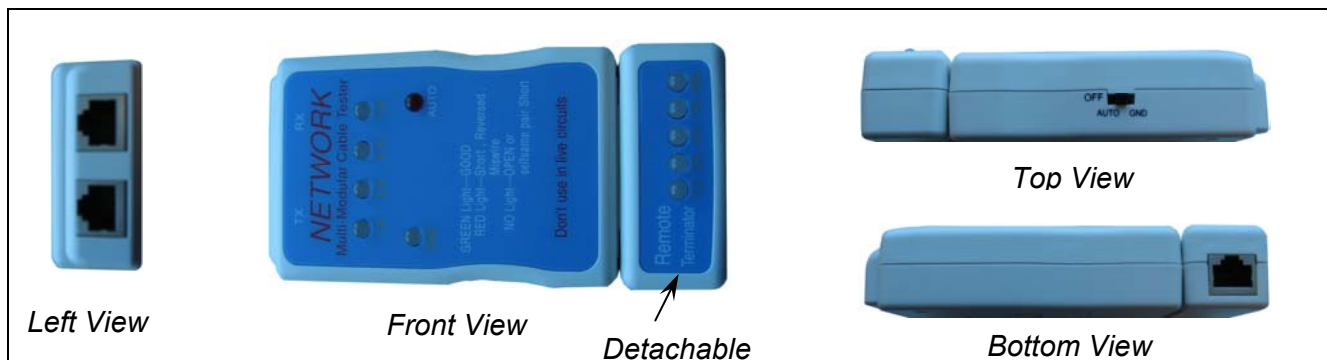
**16. The Industrial to Strain Relief RJ45 Cat. 5e Ethernet Patch Cord  
(Plastic or Metallized Plastic Version with Bayonet Locking Type and M28 Thread Screw Type)**

				
L	<b>Part Number</b>			
	<b>Plastic Version</b>		<b>Metallized Plastic version</b>	
	Cat. 5e UTP 4 Pair, AWG24, Solid Black Cable	Cat. 5e Outdoor UTP 4 Pair, AWG24, Solid Black Cable	Cat. 5e STP 4 pair, AWG24, Solid Black Cable	Cat. 5e Outdoor STP 4 pair, AWG24, Solid Black Cable
<b>2 m</b>	<b>17-101374</b>	<b>17-101404</b>	<b>17-101434</b>	<b>17-101464</b>
<b>4 m</b>	<b>17-101384</b>	<b>17-101414</b>	<b>17-101444</b>	<b>17-101474</b>
<b>5 m</b>	<b>17-101394</b>	<b>17-101424</b>	<b>17-101454</b>	<b>17-101484</b>
Notes: - Special cable lengths are available: please contact factory - UTP: Unshielded Twisted Pair; STP: Shielded Twisted Pair				

**17. The Modular Plug Termination Tool (P/N: 360X30029X)**



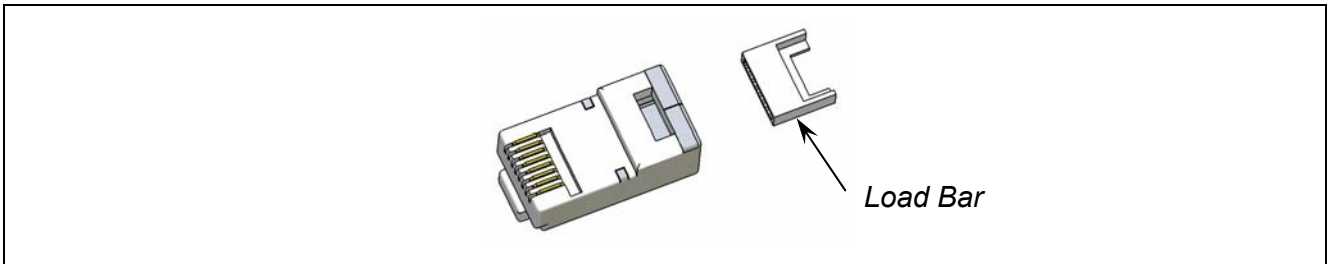
**18. The Network Multi-Module Cable Tester (P/N: 360X30039X)**



**19. The110 Type Punch-Down Tool (P/N: 360X30049X)**



**20. The Shielded Cat. 5e RJ45 Plug (P/N: 391J00039X)**



**21. The RJ45 Modular Boot (P/N: see below)**

<b>Color</b>	<b>Black</b>	<b>Blue</b>	<b>Green</b>
<b>Part Number</b>	<b>795-601302</b>	<b>795-601303</b>	<b>795-601304</b>
<b>Color</b>	<b>Yellow</b>	<b>Red</b>	<b>White</b>
<b>Part Number</b>	<b>795-601305</b>	<b>795-601306</b>	<b>795-601307</b>