

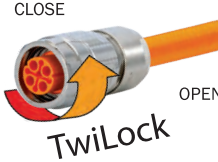





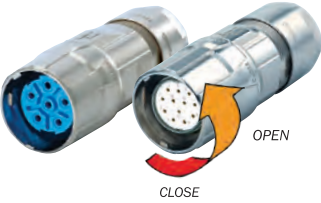




## Circular Connector Features & Benefits

- **Easy Field Assembly with Patented EuroLock®** on all Power and M16 style Connectors - Quick insert and release of contacts by lifting a tab
- **Built in Strain Relief for Braided Cable** - All Connectors EMI/RFI ready!
- **Quick Connect System** - Threaded & Twilock-in-one
- **Multiple Terminations** - Crimp, Solder, Dip Solder and Screw Terminal Solutions!
- **Pre-tinned Contacts** - Reliable, faster and safer means of soldering!
- **Reliable Connection** - Contacts with low plug-in force and high mating cycles!
- **Vibration Proof** - Spring loaded Socket Contact Technology!
- **IP67K & IP69K** - Ideal in spray down applications!
- **RoHS** - Environmentally compliant!

1-800-456-9012 / 303-699-1135  
www.SealconUSA.com

M12 Power	M16	M23 RJ45 & PoE Fast Ethernet	M23 Hybrid
	  <p>(M12/M16) <b>Twintus</b></p>  		<p><b>3-in-1 Solution!</b></p> 
AWG: 16 - 20 / AMP: 16	AWG: 14 - 28 / AMP: 3 -20		Power, Signal & Ethernet!
M23 (Signal & Power)	M23 Twilock & Twilock-S	M27	M40
	<p>(Power &amp; Signal)</p>  <p>Twilock-S (Intermateable to Speedtec® by Intercontec / TE)</p>		
AWG: 12 - 28 / AMP: 8 - 28		AWG: 17 - 26 / AMP: 8	AWG: 6 - 17 / AMP: 28 & 55

# SEALCON CIRCULAR CONNECTOR COMPARISON SHEET

M12

M16

M23

M23 POE Fast Ethernet

M23 Hybrid

M27

M40

TYPE	Power or Signal	Signal & Power	Signal & Power	Ethernet & Power	Power, Signal, Ethernet	Signal	Power
CONTACTS	Crimp & Screw	Crimp & Dip Solder	Crimp, Solder & Dip Solder	Crimp & Dip Solder	Crimp & Dip Solder	Crimp, Solder & Dip Solder	Crimp
PIN-OUT	4, 5 (4 + PE)	3x1 mm, 3x2 mm, 7, 7+1, 4+4 (2 - 8 pos. config. avail.), 10, 15, 18	Signal: 6, 7, 9, 12, 16, 17, 19 Power: 6, 8, 9, 10 Ethernet: RJ45	4x2 (0.6 mm) Twinax for four twisted shielded pair & 12 x 1.0 mm for Power	4x2 mm (Power) 4x1 mm (Signal) 4x0.6 mm (Ethernet)	26, 28	6, 8
AWG	S & T Screw: 16 - 20 K & L Crimp: 14 - 18	14 - 28	Signal: 14 - 28 Power: 12 - 26	22 - 28 on 0.6 mm 15 - 28 on 1.0 mm	12 - 28	17 - 26	6 - 17
AMPERE	12 - 16A	3 - 20A	8 - 28A	2A, 8A	2A, 8A, 28A	8A, 8A	28 & 55A
VOLT	63 - 630V	300 - 630V	100 - 300V & 160 - 600V	60V, 160V	60V, 300V, 630V	150V, 150V	300 - 600V
CABLE RANGE	3 - 11 mm (.12" - .43")	2 - 11 mm (.08" - .43")	Signal: 3 - 17 mm (.12" - .67") Power: 7 - 17 mm (.28" - .67")	11 - 17 mm (.43" - .67")	3 - 17 mm (.12" - .67")	7 - 17 mm (.28" - .67")	13 - 28 mm (.51" - 1.10")
TEMPERATURE	-40 °F to 257 °F (-40 °C to 125 °C)	-40 °F to 257 °F (-40 °C to 125 °C)	-40 °F to 257 °F (-40 °C to 125 °C)	-40 °F to 257 °F (-40 °C to 125 °C)	-40 °F to 257 °F (-40 °C to 125 °C)	-40 °F to 257 °F (-40 °C to 125 °C)	-40 °F to 257 °F (-40 °C to 125 °C)
OPTIONS	Threaded, Over mold cord sets, 316L Stainless Steel, Black Chrome-Plated	Threaded, Twilock (Quick Connect), Over mold cord sets, 316L Stainless Steel Twintus, Die Cast, Nickel Plated Brass	Threaded, Twilock (Quick Connect) Twilock-S (mates to Speedtec®) Elbows, 316L Stainless Steel, Intrinsically Safe (IS), RJ45, Solution with Euro-Lock, Over mold cord sets, Multi hole inserts and Flex nut	Threaded, Straight & Elbow	Threaded and Twilock (Quick Connect), Nickel Plated Brass, 316L Stainless Steel	Threaded	316L Stainless Steel
UNIQUENESS	Low profile, High power transmission, IP67 & IP69K, Robust metal housing, EMI ready UL, VDE	35% Smaller than M23, EMI-ready, patented Euro- Lock, IP67 & IP69K (washdown), robust in comparison to plastic connectors, UR, CSA, VDE Low profile, compact, Twintus M16/M16 M16 with M12 8-pos M16 with M12 12-pos, (a Twintus option only)	Euro-Lock on Power EMI-Ready, Twilock in Power & Signal. Twilock-S mates to SpeedTec®, Black Chromated, 90° Rotating Elbow, Conduit and Flange Adapter, RJ45 in Ex-i (IS). IP67 & IP69K (washdown), robust, UR, CSA, VDE	High speed (10 Gigabit) Ethernet - Power - Signal all in one, end to end shielding to prevent crosstalk, CAT 7, Multi-BUS II Low profile, cost savings - fewer cables & connectors IP67 & IP69K (washdown), robust in comparison to plastic connectors	Space Savings, All-in-one solution, data transfer of up to 500 Mbits/s, CAT 5e, Cost Savings - Fewer cables & connectors, end to end shielding, IP67 / IP69K (washdown), Twilock in Power	Multiple circuits in-one, highest pin-out (28), IP67 & IP69K (washdown), robust in comparison to plastic connectors	IP 67 & IP 69K Euro-Lock, EMI-ready, Rotating Elbows, UR, CSA, VDE
APPLICATIONS	AC / DC Motors, Motor Control Switches, Aux. Power Distribution, LED & Conventional Lighting, Network Devices, Robotics	Low profile power applications, FluidControl Switches, Daisy Chain Solar, Ethernet, Encoder Feedback systems, AC/DC Motors, Twintus M12 mate to Phoenix, Turck, Belden, Molex	Motors & Encoders, Motion Control, Robotics, Conveyors, Profibus/Interbus Connections	Weight, space & reliability in high speed/dynamic environments are huge factors in robotics	Small Motor	Sensors, Boating	Heavy Motors on Printing Presses, Conveyors, Robots for Automotive, where an M23 is in action, Where heavy masses are being moved

## Qualifying Questions?

1. Is connector for a new design? (Preferred)
2. If for existing application, what brand to mate?
3. How many contacts?
4. AWG per contact?

5. AMP/Volt requirements?
6. Cable Diameter?
7. Body Style (Straight, Elbow, etc.)
8. Material (Nickel Plated Brass, 316L Stainless Steel)

Our product is modular: A Connector consists of 1 ea Connector Shell, 1 ea Contact Insert (solder), and for a crimp version also individual crimp Sockets and/or Pins. The best opportunities are new designs. When cross referencing products, make certain the mate (thread) and the contact insert (count/layout) are compatible with Hummel Standards.