

fischer connectors

4032 Series
Plastic connectors



MEDICAL



*PORTABLE
EQUIPMENT*



*DATA
ACQUISITION*



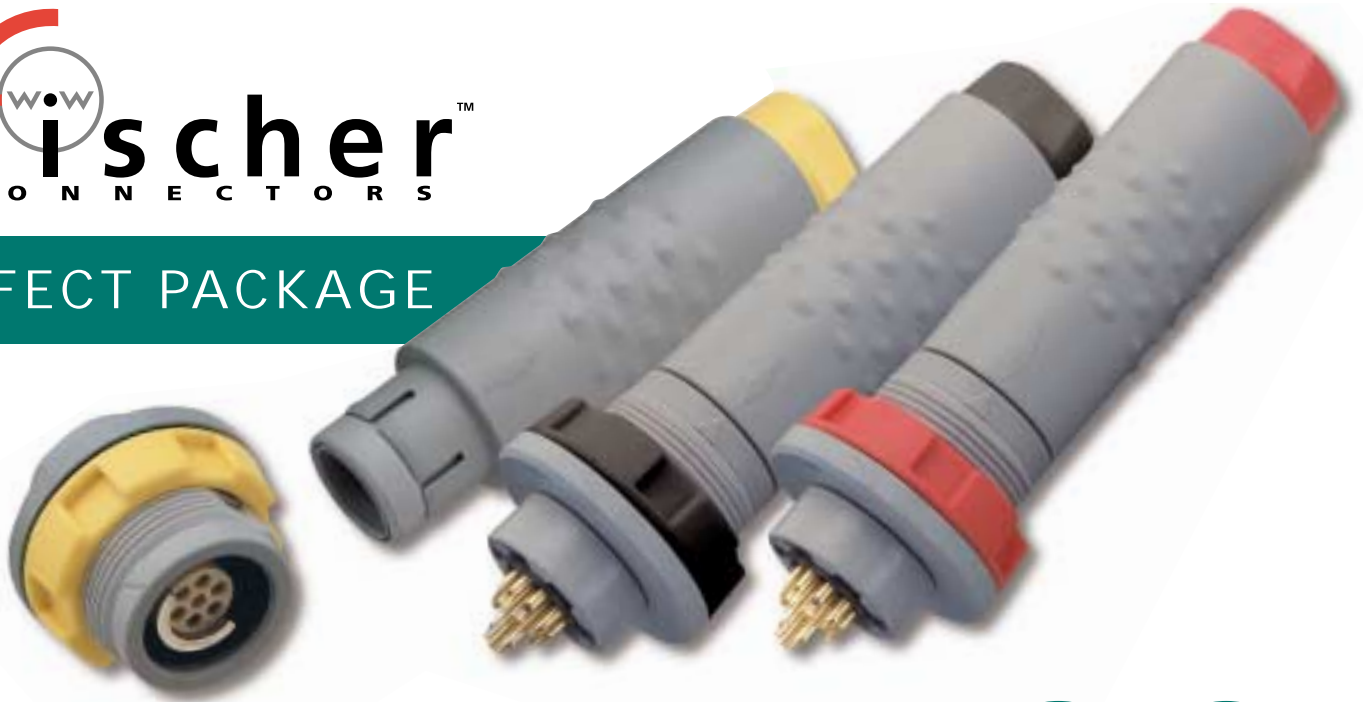
INSTRUMENTATION

*HIGH-PERFORMANCE IN A
VERSATILE PACKAGE*





PERFECT PACKAGE



S E R I E S 4032

FEATURES

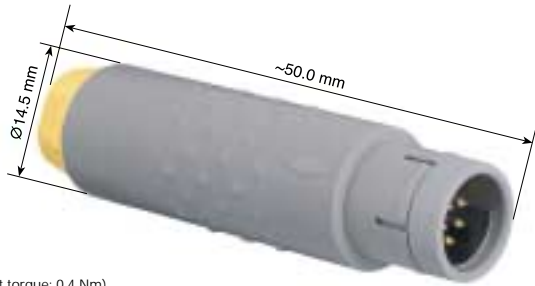
- 2 - 19 contacts High signal density
- 14.5 mm diameter plug Ideal for miniature equipment
- Gold-plated contacts (greater than 1 µm) Highly reliable signal path
- Greater than 5000 mating cycles Minimizes end product warranty claims
- IP68 sealing available (submersible) Ideal for exterior applications
- 60% lighter than equivalent metal models Minimizes total product weight
- Fischer®-pioneered keying system Facilitates easy operation and eliminates contact damage
- Insulated construction Ideal for IEC 60601-1 applications
- Disposable versions available High reliability for cost-sensitive applications
- SureGrip™ plastic housing Promotes user and patient safety
- Color keying Easy identification of multiple connectors

BENEFITS

APPLICATIONS

- ▶ Disposable medical equipment
- ▶ Hand-held instrumentation
- ▶ Data acquisition equipment
- ▶ Surgical hand tools
- ▶ Bar code readers
- ▶ Medical catheters
- ▶ Portable field equipment
- ▶ Meteorological instrumentation
- ▶ Patient-worn medical devices
- ▶ Diagnostic equipment
- ▶ Marine applications
- ▶ Entertainment equipment

Connectors and Accessories



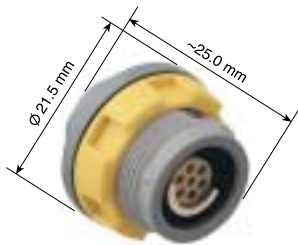
(Max. cap nut torque: 0.4 Nm)
All dimensions shown are in millimeters and are for reference only



IP65 or IP68
Rated

SI

- Cable Plug
- Sealed to IP65 or IP68
- Color-coded back nut permits easy identification
- Accepts cable diameters 2.2 – 6.7 mm (0.09 – 0.26 in.)
- See cable clamps on page 5

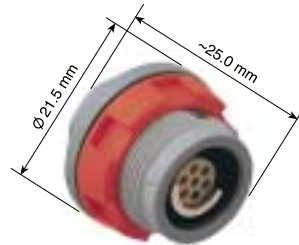
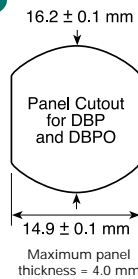


(Max. mounting nut torque: 1.0 Nm)

DBP

- Chassis Receptacle
- Sealed to IP65 when mated
- Color-coded mounting nut permits easy identification

IP65
Rated

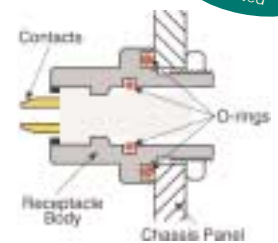


(Max. mounting nut torque: 1.0 Nm)

DBPO

- Same as DBP, except with sealing to panel and mating plug
- Sealed to IP68 when mated
- Color-coded mounting nut permits easy identification

IP68
Rated



Sealing Cap - Plug

Part Number: 4032.703

- Integral o-ring seals and protects plug when unmated
- Supplied with 150 mm PTFE coated stainless steel lanyard and hardware
- Material: POM (Delrin®)



Sealing Cap - Receptacle

Part Number: 4032.701

- Integral o-ring seals and protects receptacle when unmated
- Supplied with 150 mm PTFE coated stainless steel lanyard and hardware
- Material: POM (Delrin®)












Nut Driver

Part Number: TH00.001

- Use for easy assembly of DBP and DBPO to panel

Standard Contact Configurations

Designation	Number of Contacts	Test Voltage ¹ (kVAC)	Maximum Current ² per Contact (A)		Contact Diameter	Wire Barrel Diameter	AWG	Insulator Material	Available Contact Styles ³
			20°C	40°C					
4032 A051 4032 Z051	 2	2.2	10	14.1	1.3	1.2	20	PEEK	J, L
4032 A052 4032 Z052	 3	1.5	8.9	12.6	1.3	1.2	20	PEEK	J, L
4032 A053 4032 Z053	 4	1.6	4.6	6.5	0.9	0.8	22	PEEK	J, L
4032 A054 4032 Z054	 5	1.4	4.4	6.2	0.9	0.8	22	PEEK	J, K, L
4032 A056 4032 Z056	 6	1.3	3.3	4.6	0.7	0.6	26	PEEK	J, K, L
4032 A057 4032 Z057	 7	1.3	3.3	4.6	0.7	0.6	26	PEEK	J, K, L
4032 A010 4032 Z010	 10	1.5	2.3	3.3	0.7	0.6	26	PEEK	J, K, L
4032 A012 4032 Z012	 12	1.5	2.2	3.2	0.7	0.6	26	PEEK	J, K, L
4032 A019 4032 Z019	 19	0.9	1.0	1.5	0.5	0.4	28	PEEK	J, K, L

¹ per IEC 512-2, 4a

² per IEC 512-3, 5a

³ J = Solder; K = Crimp; L = PCB

Materials

Component	Material	Plating
Bodies, Cap Nut, Mounting Nut	PBT	-
Metal Parts (except contacts)	Brass	3 µm Nickel ⁵
Contacts	Solder: Male: Brass Female: Bronze Crimp: Male: Bronze Female: Bronze	Minimum 1 µm Gold ⁴ on 4 µm Nickel ⁵
Contact Block	PEEK	-
O-rings	NBR	-
Plastic Cable Clamps	POM (Delrin®)	-

⁴ per AMS2422D or ASTM B488

⁵ similar to MIL-C26074E

Performance

Operating Temperature Range	-65°C to +135°C
Mechanical Endurance	5000 mating cycles
Radiation Resistance	10 ⁸ Rad
Autoclaveability	Maximum of 50 cycles

Part Numbers

Connectors

Diagram illustrating the breakdown of connector part numbers into nine categories:

- Body Style:** SI (Plug), DBP (Receptacle, rear panel mounted), DBPO (Receptacle, rear panel mounted, sealed when mated (IP68)).
- Series:** 4032
- Contact Polarity:** A (Plugs have pins. Receptacles have sockets.), Z (Plugs have sockets. Receptacles have pins.).
- Contact Configuration:** See page 4
- Body Material:** D (PBT)
- Insulator Material:** 3 (PEEK)
- Contact Style:** J (Solder), K (Crimp), L (PCB)
- Color¹ Coding:** 1 (White), 2 (Black), 3 (Green), 4 (Blue), 5 (Yellow), 6 (Red), 7 (Grey)
- Bend Relief Material:** R (None), T (TPE²)

¹ Plug: Cap nut
Receptacle: Mounting nut

² Future availability

Cable Clamps

Plastic ³	
Cable O.D. (mm)	Part Number
2.2 – 3.7	4032.1003
3.7 – 5.2	4032.1002
5.2 – 6.7	4032.1001

³For unshielded applications

Sealed ⁴	
Cable O.D. (mm)	Part Number
2.2 – 2.7	E3 1031.2/2.7
2.7 – 3.2	E3 1031.2/3.2
3.2 – 3.7	E3 1031.2/3.7
3.7 – 4.2	E3 1031.2/4.2
4.2 – 4.7	E3 1031.2/4.7
4.7 – 5.2	E3 1031.2/5.2
5.2 – 5.7	E3 1031.2/5.7
5.7 – 6.2	E3 1031.2/6.2
6.2 – 6.7	E3 1031.2/6.7

⁴For use when sealing shielded or unshielded cable to plug body



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