

# fischer connectors

*4032 Series*  
Plastic connectors



*MEDICAL*



*PORTABLE  
EQUIPMENT*



*DATA  
ACQUISITION*



*INSTRUMENTATION*

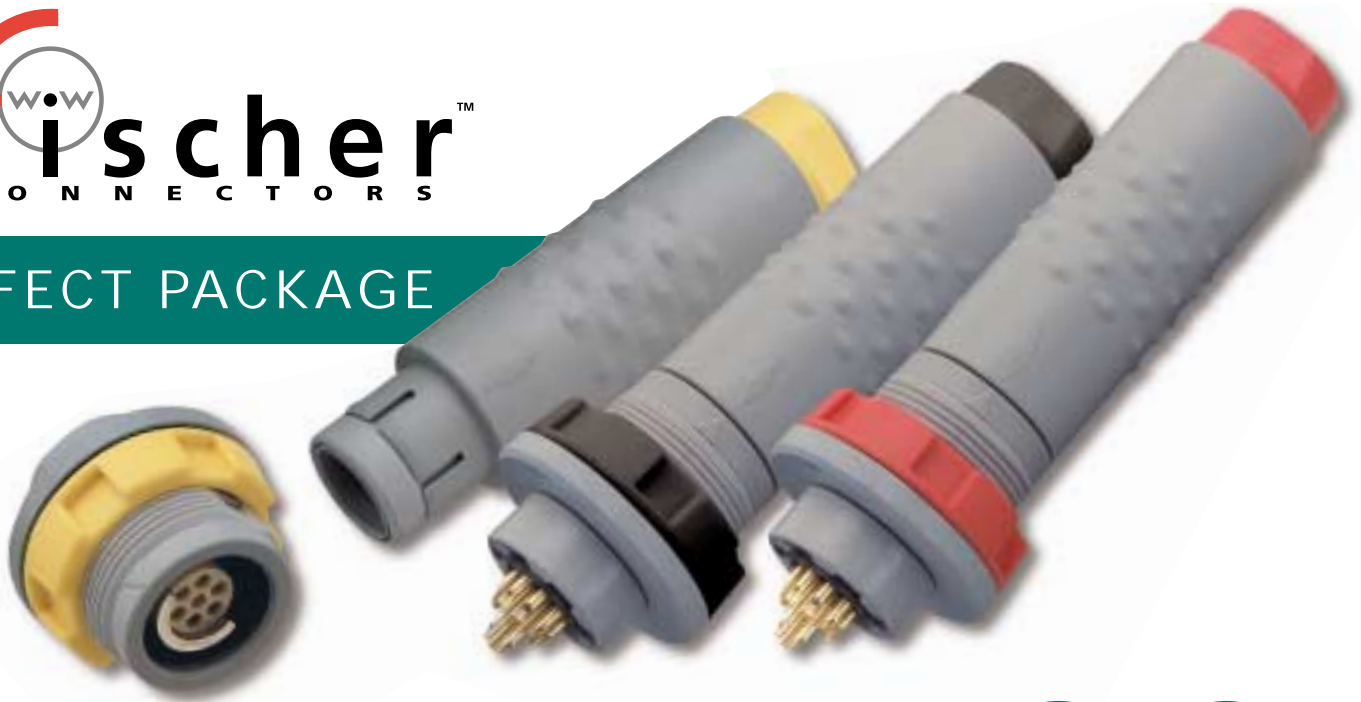


*HIGH-PERFORMANCE IN A  
VERSATILE PACKAGE*





## PERFECT PACKAGE



# S E R I E S 4032

### FEATURES

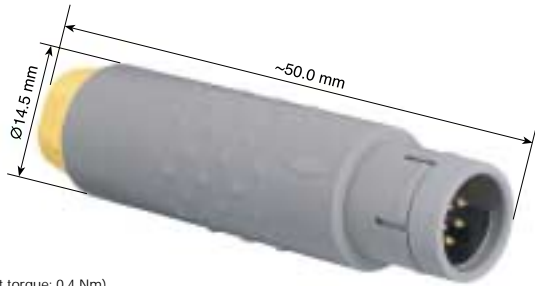
- 2 - 19 contacts . . . . . High signal density
- 14.5 mm diameter plug . . . . . Ideal for miniature equipment
- Gold-plated contacts (greater than 1 µm) . . . . . Highly reliable signal path
- Greater than 5000 mating cycles . . . . . Minimizes end product warranty claims
- IP68 sealing available (submersible) . . . . . 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



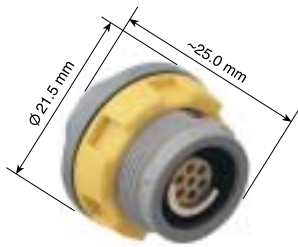
(Max. cap nut torque: 0.4 Nm)  
All dimensions shown are in millimeters and are for reference only



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

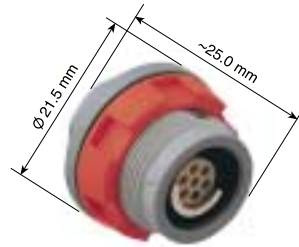
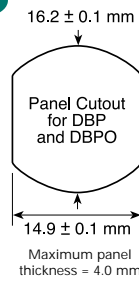


(Max. mounting nut torque: 1.0 Nm)

## DBP

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

IP65 Rated

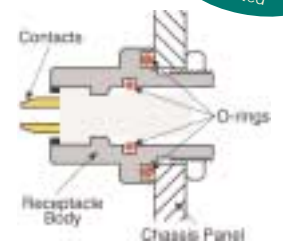


(Max. mounting nut torque: 1.0 Nm)

## 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 <sup>1</sup> (kVAC)	Maximum Current <sup>2</sup> per Contact (A)		Contact Diameter	Wire Barrel Diameter	AWG	Insulator Material	Available Contact Styles <sup>3</sup>
			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

<sup>1</sup> per IEC 512-2, 4a

<sup>2</sup> per IEC 512-3, 5a

<sup>3</sup> J = Solder; K = Crimp; L = PCB

## Materials

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

<sup>4</sup> per AMS2422D or ASTM B488

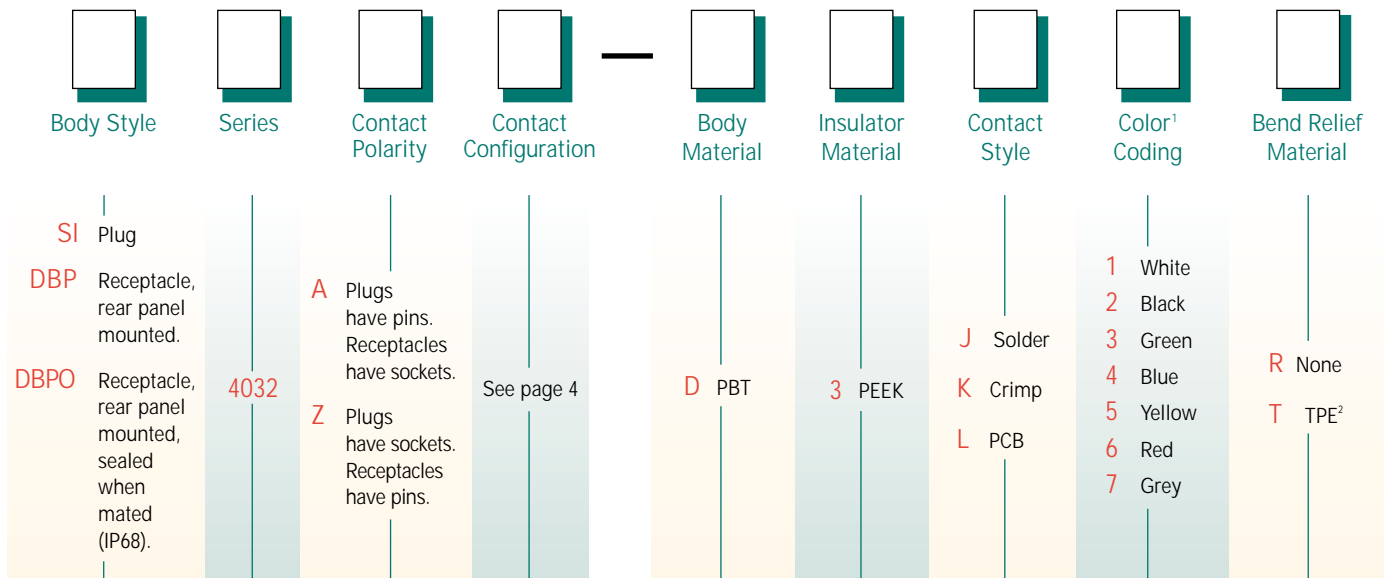
<sup>5</sup> similar to MIL-C26074E

## Performance

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

# Part Numbers

## Connectors



<sup>1</sup> Plug: Cap nut  
Receptacle: Mounting nut

<sup>2</sup> Future availability

## Cable Clamps

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

<sup>3</sup>For unshielded applications

Sealed <sup>4</sup>	
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

<sup>4</sup>For use when sealing shielded or unshielded cable to plug body



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