

# fischer connectors

*4032 Series*  
Plastic connectors



*MEDICAL*



*PORTABLE  
EQUIPMENT*



*DATA  
ACQUISITION*



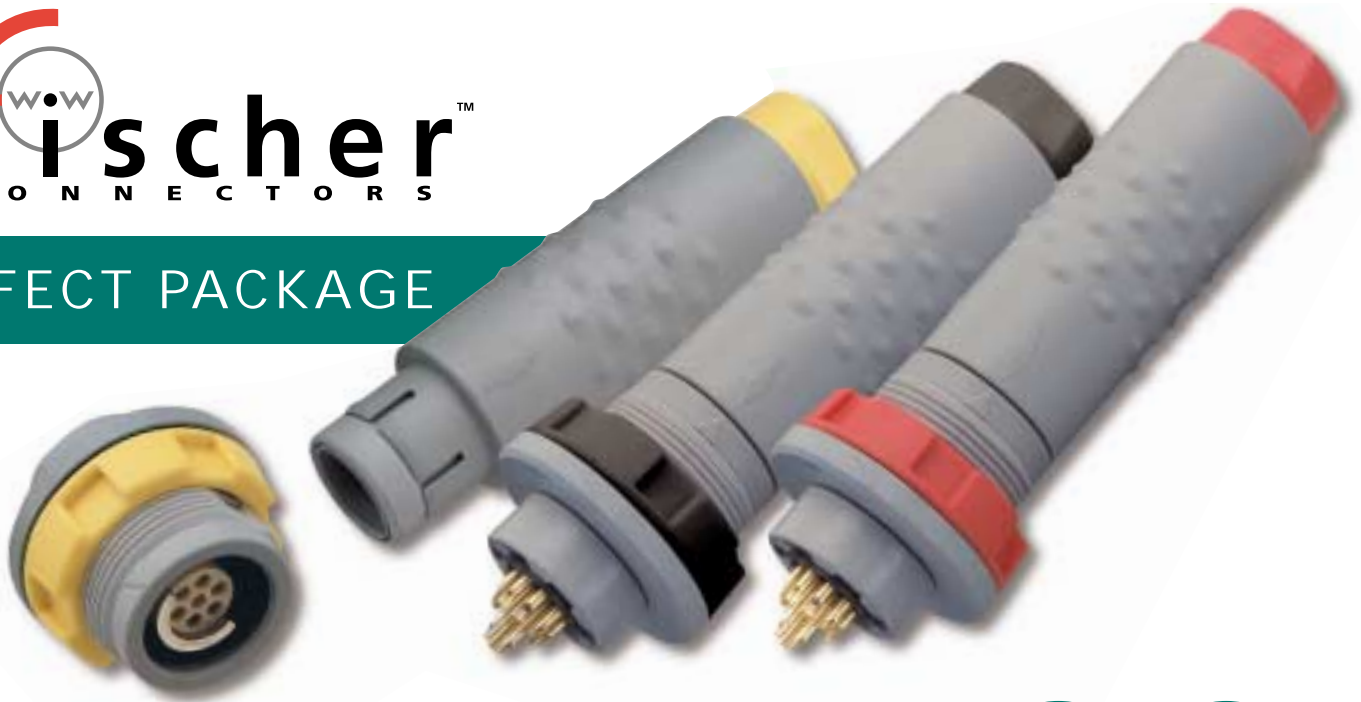
*INSTRUMENTATION*

*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



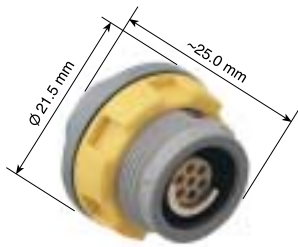
(Max. cap nut torque: 0.4 Nm)  
All dimensions shown are in millimeters and are for reference only



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

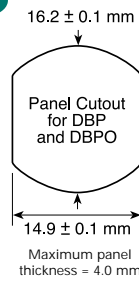


(Max. mounting nut torque: 1.0 Nm)

## DBP

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

IP65 Rated

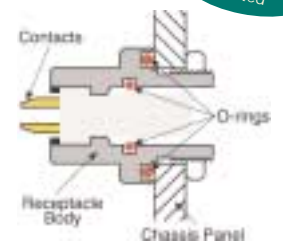


(Max. mounting nut torque: 1.0 Nm)

## 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

The diagram illustrates the components of a connector part number. It shows a sequence of icons representing different parts: Body Style, Series, Contact Polarity, Contact Configuration, Body Material, Insulator Material, Contact Style, Color Coding, and Bend Relief Material. Below each icon, specific options are listed with their corresponding letters or numbers.

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

<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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