B10

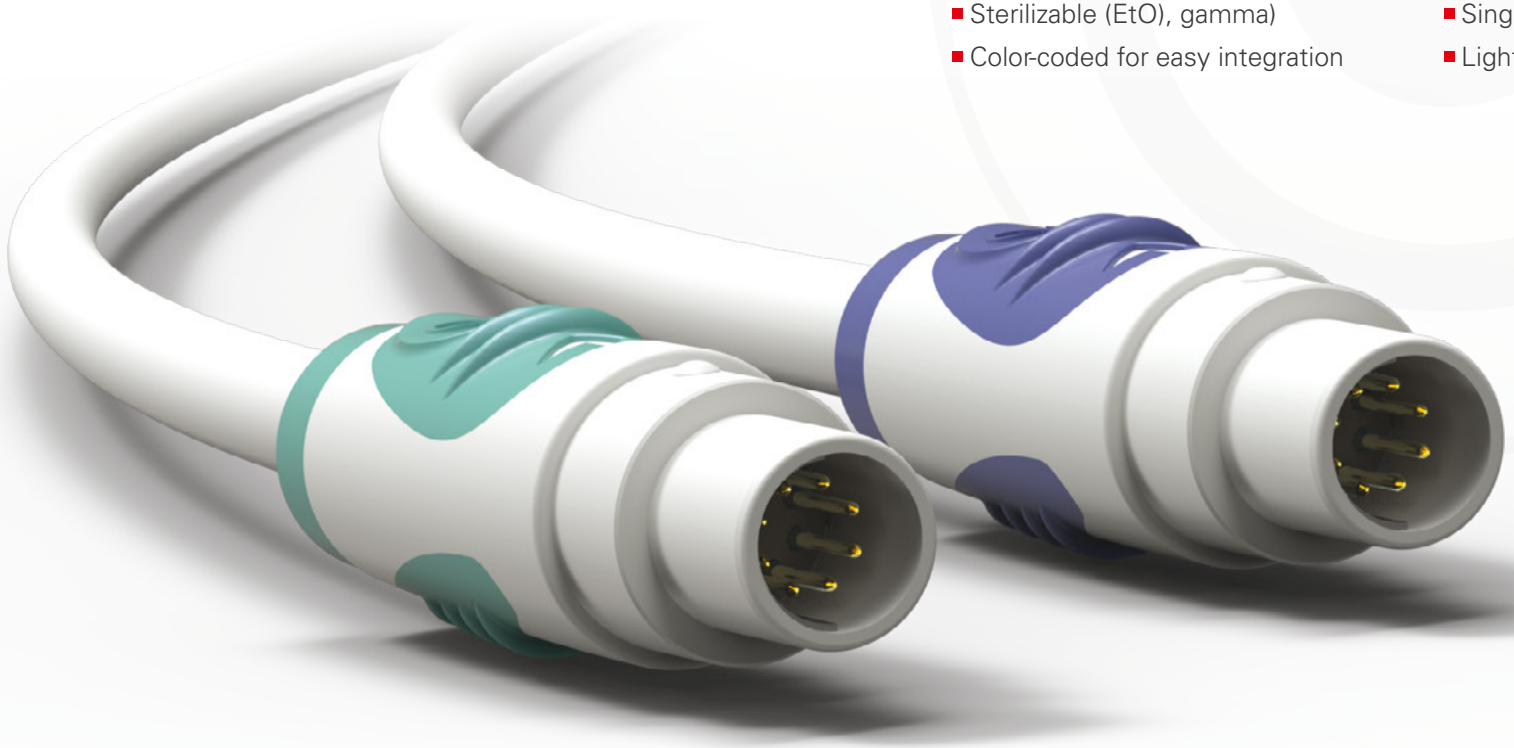
CHAPTER

FISCHER CORE SERIES
DISPOSABLE

COST-EFFECTIVE | EASY TO USE | MODULAR

KEY FEATURES

- Sterilizable (EtO), gamma)
- Color-coded for easy integration
- Single or two-piece shell
- Lightweight and shock resistant



B10-2 / B10-8

DISPOSABLE

Table of contents

PLUGS

CABLE MOUNTED **TWO-PIECE** SHELL
- Body styles ..... B 10-3
- Technical dimensions ..... B 10-4

CABLE MOUNTED **SINGLE** SHELL
- Body styles ..... B 10-3
- Technical dimensions ..... B 10-5

PRE-CABLED SOLUTION
- Body styles ..... B 10-3
- Technical dimensions ..... B 10-5

FOR ALL DISPOSABLE

- Electrical & contact configurations ..... B 10-6
- Technical information ..... B 10-8
- Product specifications A-5

This catalog covers our standard connector solutions. For specific requests, including hybrid or custom connectors, please contact your local sales representative.

PLUGS

CABLE MOUNTED

BODY STYLES	WHITE	BLUE	VIOLET	TURQUOISE
Locking system	Friction	Friction	Friction	Friction
Sealing	IP30/IP40	IP40	IP40	IP40
Design	Single/Two-piece shell	Two-piece shell	Two-piece shell	Two-piece shell

PRE-CABLED SOLUTION

BODY STYLES	
Locking system	Friction
Sealing	IP65
Design	Turnkey

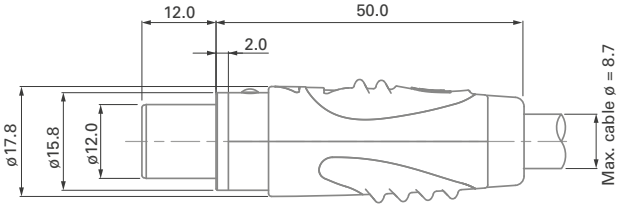
COMPATIBILITY

Mateable with all high performance Fischer Connectors' panel receptacles of the Fischer Core Series Brass 104.

PLUGS

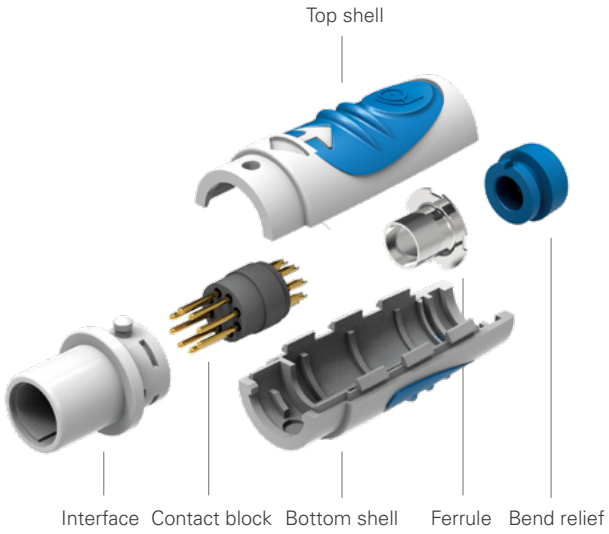
TWO-PIECE SHELL

WHITE* BLUE VIOLET TURQUOISE



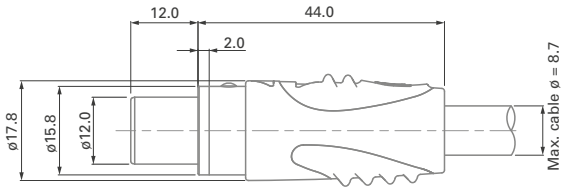
Part	Part number	Description
Interface	U1 504-A	Interface white
Top shell	U31 504-B01	White top shell
	U31 504-A03	White top shell + blue soft touch
	U31 504-A04	White top shell + violet soft touch
	U31 504-A09	White top shell + turquoise soft touch
Bottom shell	U32 504-B01	White bottom shell
	U32 504-A03	White bottom shell + blue soft touch
	U32 504-A04	White bottom shell + violet soft touch
	U32 504-A09	White bottom shell + turquoise soft touch
Ferrule	U33 504/5.0	Ferrule Dia 5.0 for two-piece shell version
Bend relief	U34 504-A03	Blue
	U34 504-A04	Violet
	U34 504-A09	Turquoise

* Assembled with color bend relief.

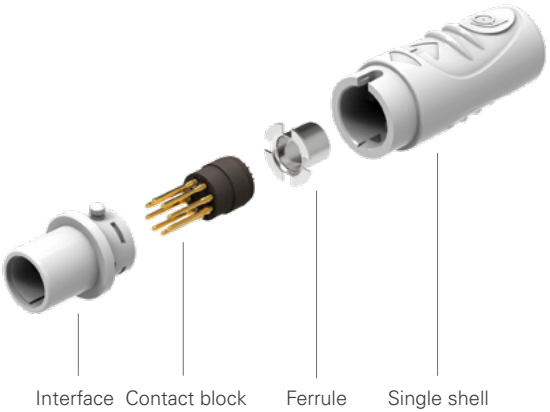


PLUGS

SINGLE SHELL
WHITE



Part	Part number	Description
Interface	U1 504-A	Interface white
Single shell	U41 504-A	One-piece shell, white only
Ferrule	U42 504/5.0	Ferrule Dia 5.0 for single shell version



PLUGS

DISPOSABLE CABLE SOLUTION ON DEMAND

All dimensions and images shown are in millimeters and are for reference only.

SINGLE OR TWO-PIECE SHELL

References	Pin layout	Number of contacts	Insulating material	Contact ø *[mm]*	Wire size	Test Voltage *[kV] in mated position*				Max. admissible current [1] *[A]* at 10°C temperature rise	Contact block insulator
						AC rms		DC			Part number
						Contact to receptacle body	Contact to contact	Contact to receptacle body	Contact to contact		
A 037		4	PBT	1.3	AWG18 [16/30]	1.8	2.2	2.5	3.0	-	E21 504 A037-J
A 087		4 2	PBT	2.3	AWG12 [7/20]	1.5	1.6	2.2	2.5	-	E21 504 A087-J
		2		0.9	AWG22 [7/30]	2.0		2.8		-	
A 066		8	PBT	0.9	AWG22 [7/30]	1.5	1.6	2.2	2.7	3.0	E21 504 A066-J
A 056		11	PBT	0.9	AWG22 [7/30]	1.4	1.5	2.1	2.2	-	E21 504 A056-J
A 086		16	PBT	0.7	AWG22 [7/30]	0.8	1.5	1.3	2.1	1.7	E21 504 A086-J
A 092		19	PBT	0.7	AWG22 [7/30]	0.8	1.2	1.2	1.8	-	E21 504 A092-J

[1] Current per contact at 10°C temperature rise measured on the basic curve according to IEC 60512-5-2-5b. For the max. operating current a reduction factor must be used and limitations due to the size of the wires and the permissible upper temperature limit of the materials employed must be taken into account. See page A-12 for details.

SINGLE OR TWO-PIECE SHELL

MECHANICAL & ENVIRONMENTAL DATA

Sealing rating – Single shell – Two-piece shell	 **IP30** **IP40**
Operating temperature range	-20°C to +65°C
Endurance	10 mating cycles
Gamma irradiation for sterilization	Tested to withstand irradiation up to 60 kGy per ISO 11137-2
EtO for sterilization	Tested with a standard EtO sterilization cycle per ISO 11135
Mating / Unmating force	Typ. 10-20 N

MATERIAL & SURFACE TREATMENTS

Parts	Material	Surface treatment	Flammability
Plastic housing	ABS	–	UL 94 HB
Soft-touch areas	TPE	–	UL 94 HB
Contacts	Brass or Bronze	Gold over Nickel	–
Insulator	PBT	–	UL 94 V-0
Ferrule	Copper alloy	Nickel	–

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