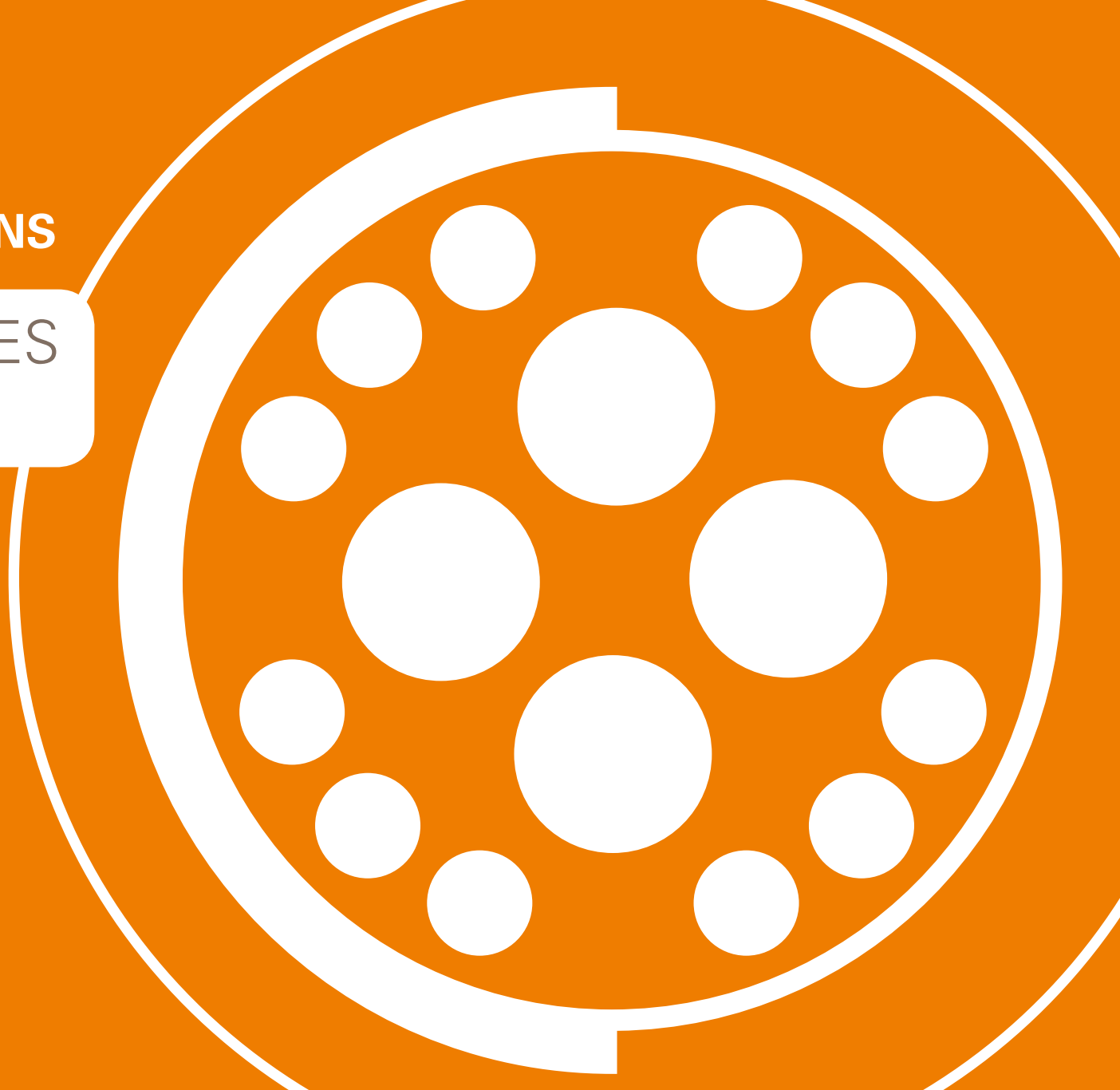


**TECHNICAL SPECIFICATIONS**

FISCHER CORE SERIES  
**DISPOSABLE**



The image shows two medical-grade connectors from the Fischer Core Series. One connector is silver and the other is white with a blue stripe. Both have gold-plated pins visible inside their ports. They are resting on a dark, reflective surface, creating clear reflections. The background is dark and out of focus, showing the curved path of the white cables.

FISCHER  
CORE SERIES  
**DISPOSABLE**



## KEY FEATURES



The Fischer Core Series Disposable meets the needs of medical device manufacturers whose products are designed for disposal after a short number of uses. This circular connector is a cost effective solution that does not compromise on quality.

This product range truly contributes to the competitive pricing and performance necessary for disposable medical devices. Whether directly mounted into a disposable handpiece, overmold or mounted to a disposable cable, this plastic connector offers multiple configurations and optimally suits a wide array of applications, from catheters to surgical hand tools and more.

### RELIABILITY

- Perfect solution for medical applications
- Fully insulated body
- Sterilizable (EtO, Gamma)

### MODULAR

- Single or two-piece shell
- Easy integration of embedded electronics
- Stamped or machined contacts
- Mateable with all high performance panel receptacles of the Fischer Core Series Brass 104

### EASY TO USE

- Color-coded for easy identification
- Quality tactile feel
- Click ensures secure friction plugging
- Choose from easy assembly connector or turnkey solution

### PORTABLE

- Lightweight
- Ideal for portable applications from catheters to surgical hand tools
- Shock protection



## PLUGS

### CABLE MOUNTED



- Body style selection..... F 3

### PRE-CABLED SOLUTION



- Body style selection..... F 3
- Technical dimensions ..... F 6

### CABLE MOUNTED **TWO-PIECE SHELL**

- Technical dimensions ..... F 4

### CABLE MOUNTED **SINGLE SHELL**

- Technical dimensions ..... F 5

## FOR ALL DISPOSABLE

### ELECTRICAL & CONTACT CONFIGURATIONS

- Single or two-piece shell..... F 7
- Pre-cabled solution ..... F 8

### TECHNICAL INFORMATION

- Single or two-piece shell..... F 9
- Pre-cabled solution..... F 10
- Cross-line technical information ..... A 9



## PLUGS

### CABLE MOUNTED



**BODY STYLES**

	<b>WHITE</b>	<b>BLUE</b>	<b>VIOLET</b>	<b>TURQUOISE</b>
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.

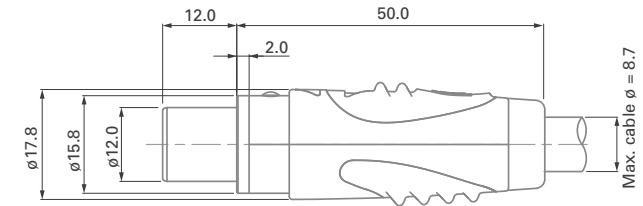
All dimensions and images shown are in millimeters and are for reference only.



**PLUGS**

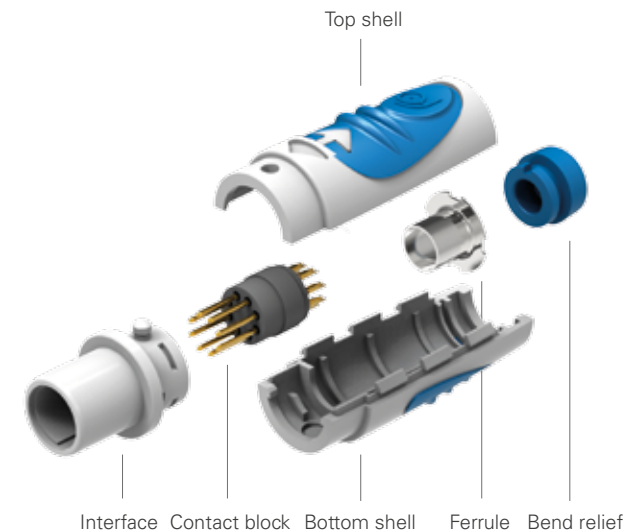
**TWO-PIECE SHELL**

WHITE\*      BLUE      VIOLET      TURQUOISE



Part	Part number	Description
<b>Interface</b>	U1 504-A	Interface white
<b>Top shell</b>	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
<b>Bottom shell</b>	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
<b>Ferrule</b>	U33 504/5.0	Ferrule Dia 5.0 for two-piece shell version
<b>Bend relief</b>	U34 504-A03	Blue
	U34 504-A04	Violet
	U34 504-A09	Turquoise

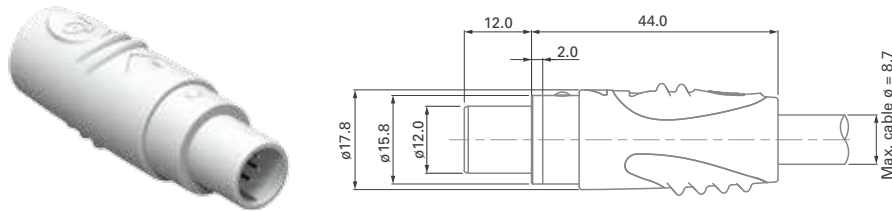
\* Assembled with color bend relief.



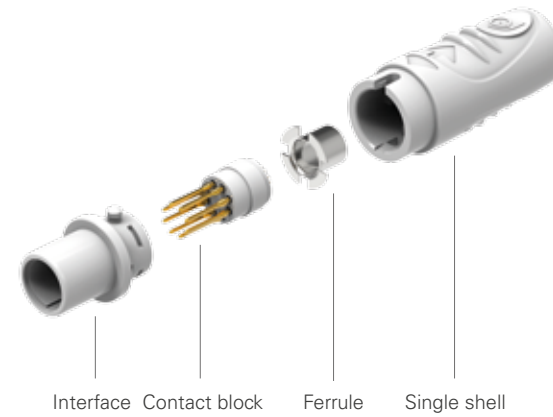


## PLUGS

### 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

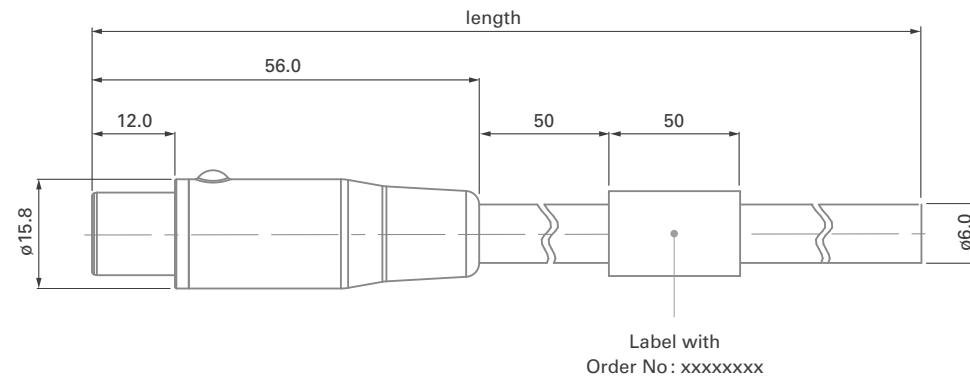


All dimensions and images shown are in millimeters and are for reference only.



## PLUGS

### PRE-CABLED SOLUTION











Part number	Length* [mm]
CA_S_8XLV_SI504 1.0m	1000
CA_S_8XLV_SI504 2.0m	2000
CA_S_8XLV_SI504 5.0m	5000

\*Cable length tolerance according IPC-WHMA-A-620.






**SINGLE OR TWO-PIECE SHELL**

References	Pin layout	Number of contacts	Insulating material	Contact $\varnothing$ [mm]	Wire size	Test Voltage [kV] in mated position				Max. admissible current <sup>1)</sup> [A] at 10°C temperature rise	 Contact block insulator	Stamped contact	
						AC rms		DC			 Part number	 Part number	
						Contact to receptacle body	Contact to contact	Contact to receptacle body	Contact to contact			Reel size (pcs.)	
												1'000	10'000
A 065		6	PBT	0.9	AWG20 to AWG24	1.7	2.0	2.4	2.6	-	E21 504 A065-S	RMS1/0.9:1K	RMS10/0.9:10K
A 066		8	PBT	0.9	AWG20 to AWG24	1.5	1.6	2.2	2.7	3.0	E21 504 A066-S		
A 056		11	PBT	0.9	AWG20 to AWG24	1.4	1.5	2.1	2.2	-	E21 504 A056-S		
A 086		16	PBT	0.7	AWG26 to AWG30	0.8	1.5	1.3	2.1	1.7	E21 504 A086-S	RMS1/0.7:1K	RMS10/0.7:10K
A 092		19	PBT	0.7	AWG26 to AWG30	0.8	1.2	1.2	1.8	-	E21 504 A092-S		

<sup>1)</sup> 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 A17 for details.



**PRE-CABLED SOLUTION**

References	Pin layout	Number of contacts	Insulating material	Contact $\varnothing$ [mm]	Wire size	Test Voltage [kV] in mated position				Max. admissible current <sup>2)</sup> [A] at 10°C temperature rise	Turnkey solution part number
						AC rms		DC			
						Contact to receptacle body	Contact to contact	Contact to receptacle body	Contact to contact		
A 066 <sup>1)</sup>		8	ABS	0.9	AWG24	1.5	1.5	2.5	2.5	1.9	CA_S_8XLV_SI504 1.0m CA_S_8XLV_SI504 2.0m CA_S_8XLV_SI504 5.0m

<sup>1)</sup>The Fischer Core Series Disposable turnkey solution is available in a standard 8-contact pin layout. Pin layout with 16 contacts is available on request.

<sup>2)</sup> 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 A17 for details.



## SINGLE OR TWO-PIECE SHELL

### MECHANICAL & ENVIRONMENTAL DATA

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

### MATERIAL & SURFACE TREATMENTS

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



## PRE-CABLED SOLUTION

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### ENVIRONMENTAL DATA

Characteristic	Value
Sealing performance	IP65
Operating temperature range	-20°C to +65°C
Mechanical resistance cable / plug	100 N
Endurance	10 mating cycles

### MATERIAL & SURFACE TREATMENTS

Part	Material	Surface treatment	Flammability
Body	PVC overmolding	–	UL 94 V-2
Contacts	Brass	Gold over Nickel	–
Interface and insulator (merged)	ABS	–	UL 94 HB
Cable (1, 2, or 5 meters)	PVC	–	UL 94 HB

