

# Contents

Cable assemblies, Model 10.....33

## Cable assemblies, Model 10

### Main Characteristics

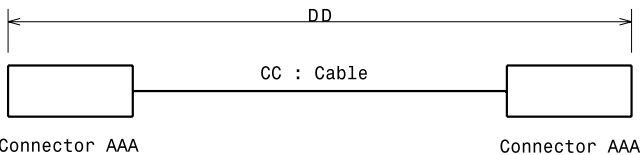
- Choice of connectors to interface with various sensor
- Choice of cable to suit various environment
- -55°C to 260 °C maxi (-67°F to 500°F)
- Rugged construction for harsh environment
- Conduit or stainless steel overbraid protection

### Description

10 series are cable assemblies to interface with a variety of industrial sensors.

Typical application is to connect a sensor to a junction box or directly to the signal conditioner. It allows to get out in a cooler and less exposed environment where a standard multipair low cost cable could be used.

### Ordering information



To order specify part number, options and suffix :

**10.01 - AAA - AAA - CC - DD (EE)**

Special Version :

(EE) is a deviation suffix. Omitted for standard version

Special Engraving :

Add ZXX at the end of the part number. (XX is a number supplied by VibraSens)

**AAA : Connectors**

AAA	Front	Plug Type / Material / Protection Application : Sealing :	Wiring	Shield (91)	Cables
<b>Termination</b>					
Blunt cut					
A01		None	WA 01	N/A	0X 1X 2X 3X
A03		Overbraid (101)			
A04		Conduit (15X)			
A05		Conduit (16X)			





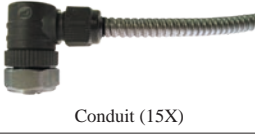




AAA	Front	Plug Type / Material / Protection Application : Sealing :	Wiring	Shield (91)	Cables
Flying leads, Pigtails					
A11			WA 01	N/A	0X 1X 2X 3X
A13		Overbraid (101)			
A14		Conduit (15X)			
A15		Conduit (16X)			
Flying leads, Spade lug, 125°C					
A21			WA 01	N/A	0X 1X 2X 3X
A23		Overbraid (101)			
A24		Conduit (15X)			
A25		Conduit (16X)			












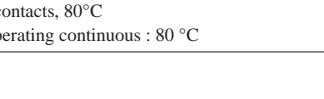




### Sensors













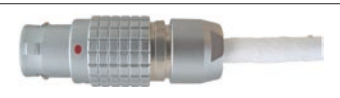
MIL-C-5015- 2 sockets - Field installable - MS 3106F  
Aluminum, cadmium olive with silver plated solder contact  
Sealing : IP64 - Operating continuous :125 °C  
Application : Industrial

B01		Connector only : order 600583.05	WB 01	SC	0X 2X 4X 5X 6X
B02	Fig AB01				
B03		Overbraid (101)			

AAA	Front	Plug Type / Material / Protection Application : Sealing :	Wiring	Shield (91)	Cables	
MIL-C-5015, AISI 316L (V4A) Sealing : IP 67 - Operating continuous :125 °C Application : Pulp and paper Wet location Available variant : AAA=B11, C11						
B13		 size 10SL-4S, 2 gold plated Sockets Overbraid (101)	WB 01	SNC PC	0X 2X	
C13		 size 10SL-3S, 3 gold plated Sockets Overbraid (101)	WC 01	SNC PC	1X	
M12, IEC 60947-5-2 - Gold plated contacts, nickel plated Brass self securing locking nut, Polyurethane overmolding. Sealing : IP 67 - Operating continuous : 90 °C Application : Permanent monitoring, standard industrial environment. . Fit accelerometer with M12 connector.						
E01			WE 01	SC	31	
E02						SNC
E04						SC PNC
E31						SC
E34						SC PNC
M12, IEC 60947-5-2 - Gold plated contacts , PVC, SSSL316L (V4A) locking nut. Sealing : IP 67 - Operating continuous : 90 °C Application : Permanent monitoring, corrosive industrial environment. Fit accelerometer with M12 connector. Available variant : AAA=E14 (conduit), E42 (angled), E44 (angled + conduit)						
E12			WB 01	SNC	32	
M12, IEC 60947-5-2 - CuSn plated contacts , PA self extinguishing housing, self securing locking nut. Sealing : IP 67 - Operating continuous : 90 °C Application : Permanent monitoring, field installable, standard industrial environment. Fit accelerometer with M12 connector.						
E51		 Connector only : order 600597.01	WE 01	SNC	0X 1X 2X 3X	
E71	 Connector only : order 600597.02					

AAA	Front	Plug Type / Material / Protection Application : Sealing :	Wiring	Shield (91)	Cables
M12, IEC 60947-5-2 - Gold plated contacts, PA self extinguishing housing, stainless steel AISI 316L nut. Sealing : IP 67 - Operating continuous : 90 °C Application : Permanent monitoring, field installable, corrosive industrial environment. . Fit accelerometer with M12 connector.					
E61		 Connector only : order 600597.03	WE 01	SNC PNC	0X 1X 2X 3X
E63	 Overbraid (101)				
E64	Picture not available Conduit (15X)				
E81	 Connector only : order 600597.04				
E83	 Overbraid (101)				
E84	 Conduit (15X)				
M12, IEC 60947-5-2 - CuSn plated contacts, PA self extinguishing housing, Sealing : IP 67 - Operating continuous : 90 °C Application : Permanent monitoring, field installable, standard industrial environment. Fit EXX connector.					
H51		 Connector only : order 600597.31		SNC PNC	0X 1X 2X 3X
M12, IEC 60947-5-2 - Gold plated contacts, PA self extinguishing housing, , stainless steel AISI 316L nut. Sealing : IP 67 - Operating continuous : 90 °C Application : Permanent monitoring, field installable, corrosive industrial environment. Fit EXX connector.					
H61				SNC PNC	0X 1X 2X 3X
H64					

AAA	Front	Plug Type / Material / Protection Application : Sealing :	Wiring	Shield (91)	Cables
7/16" 27 UNS 2A, 2 Sockets , AISI 303 Operating continuous : 260 °C Application : Permanent monitoring, aero and industrial gas turbine					
D02		Sealing : IP 64 Connector only : order 601.01-01	WD 01	SNC	0X 2X
		Sealing : IP 64		SC	
D01 D13		Sealing : IP 64 - Overbraided (101)	WD 01	SNC PC	0X 2X
D14		Sealing : IP 64 - Conduit (155)		SNC PC	
D15		Sealing : IP 67 - Conduit (170)		SNC PC	
Mil-C-26482, 3 pins, bayonet Applications : special vibration sensor with 3 Pins Bayonet connector					
G02				SC	1X
Lemo, S serie, size 0 - Brass nickel plated, gold plated contacts Sealing : IP 64 - Operating continuous : 250 °C Application : Gas turbine connection of piezoelectric differential accelerometer					
L02		FFA.OS.302	WD 01	SC	0X 2X
L22		PCA.OS.302			
BNC, Gold plated contacts, Brass Nickel plated Sealing : IP 64 - Operating continuous : 80 °C					
F01			WF 01	SNC	0X 1X 2X 3X 4X 5X 6X
F02				SC	
TNC, Gold plated contacts, 80°C Sealing : IP 64 - Operating continuous : 80 °C					
T01			WF 01	SNC	0X 1X 2X 3X 4X 5X 6X
T02				SC	

AAA	Front	Plug Type / Material / Protection Application : Sealing :	Wiring	Shield (91)	Cables
<b>Datalogger cable</b>					
Fischer, 6 pins, Brass nickel plated, gold plated contacts Sealing : IP 64 - Operating continuous : 250 °C Application : SKF datalogger					
I02		 Fischer 103 A 056 (6 contacts)	WI 02	SC	0X 2X 3X 5X
Lemo, K serie, size 1, Brass nickel plated, gold plated contacts Sealing : IP 64 - Operating continuous : 250 °C Application : Entek / IRD datalogger					
K02		 FGG.1K.307 (7 contacts)	WK 02	SC	0X 2X 3X 5X
Amphenol ECTA 133, gold plated pins, push pull, aluminum nickel plated Sealing : IP 67 - - Operating continuous : -40°C to +125 °C Application : 01dB - Metravib datalogger					
M02				SC	0X 2X 3X
Amphenol C091 A, gold plated pins, plastic shell, screw locking Sealing : IP 67 - - Operating continuous : -40°C to +85 °C Application : Schenck / Bruel & Kjaer datalogger					
N02				SC	0X 2X 3X
<b>Customer / Specific application</b>					
Amphenol, C16-1, 4 gold plated pins (03), Nylon PA6.6 Sealing : IP 67 - Operating continuous : 125 °C Application : Metso sensodec, pulp and paper					
P03			WP 11	SNC PNC	0X 2X
P13		Overbraided (101)			1X
Lemo, B serie, size 1, Brass nickel plated, gold plated contacts Sealing : IP 67 - Operating continuous : 250 °C Application : test bench connection of piezoelectric differential accelerometer					
J02		 FGG.1B.302	WD 01	SC	0X 2X

**Note, wiring : (91)**

- SC : Shield Connected to connector shell
- SNC :Shield Not Connected to connector shell
- PC : Protection (Overbraided or conduit) Connected to connector shell
- PNC : Protection (Overbraided or conduit) Not Connected to connector shell

**Note (Protection)**

- (101) Overbraided AISI 316L
- (151) Conduit AISI 304, PNR 600626.01, d=5mm
- (152) Conduit AISI 304, PNR 600626.02, d=6mm

- (153) Conduit AISI 304, PNR 600626.03, d=7mm
- (154) Conduit AISI 304, PNR 600626.04, d=8mm
- (155) Conduit AISI 304, PNR 600626.05, d=9.5mm
- (161) Conduit AISI 321, leak proof, rugged, PNR 600626.51, d=8.7mm
- (171) Conduit AISI 316L, leak proof, standard, PNR 600626.61, d=9.6mm

**CC : Cable**

CC	Type	PNR	Material	T° Dia (1)	Note
01	Shielded Twisted pair	600103.21	Polyurethane	90°C d4.9 (d5.7)	Low cost with good oil & fluid resistance
02		600103.31	Teflon FEP	200°C d4.7 (d5.5)	improved oil & fluid resistance
03		600103.51	®Radox	120°C d4.3 (d5.1)	Flame retardant halogen free
12	Shielded Twisted Triples	600106.31	Teflon FEP	200°C d4.7 (d5.5)	improved oil & fluid resistance
13		600106.51	®Radox	120°C d4.5 (d5.3)	Flame resistant & retardant halogen free
22	Low noise Shield. Twisted pair	600050.01	Teflon PTFE tape	250°C d4.2	2 Low noise treatments
31	Shielded 4 Conductors	600111.21	Polyurethane black	90°C d5.7	Low cost with good oil & fluid resistance Flexible cable 0.34mm <sup>2</sup>
32		600111.01	PVC	90°C d5.7	Low cost with excellent chemical resistance Flexible cable 0.34mm <sup>2</sup>
42	Low noise Coaxial	600052.01	Teflon PFA extruded	260°C d2.0	Low noise treated. RGL196
51	Coaxial	600101.03	PVC	80°C d2.8	RG 174
52		600101.04	PVC	80°C d4.95	RG 58 C/U
53		600101.31	Teflon FEP	200°C d1.1	Miniature coaxial
54		600101.32	Teflon FEP	200°C d1.9	RG178

CC	Type	PNR	Material	T° Dia (1)	Note
61	Spiral	600120.xx	Polyurethane	90°C d5	Spiral, 4x0.25 mm <sup>2</sup> shielded See note (11). Stock : 0.5 and 1 metre

(1) Diameter in bracket are for cable with overbraid  
 (11) For spiral cable, DD is extended length. (Divide by 4 for non extended length).

**DD : Length**

DD	Enter length in metres. Standard length : 02, 05, 10, 15, 20, 30 metres.
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**(EE) : Deviation suffix**

Call us to define your deviation suffix for special stripping, length, engraving, ....

**Ordering example :**

10.01-B01-A01-01-05 Cable assembly, MIL-C-5015, 5 meters Polyurethane cable

**SPECIFICATIONS**

**Electrical**

**Resistance**

Between leads .....>1GOhms  
 Between either leads to shield .....>1GOhms  
 Capacitance .....See cable specification

**Environmental**

**Temperature**

See table above for the temperature rating of each component.

**Physical**

Drawing.....See drawing Below

**Acceptance, tests performed**

**Resistance (@100VDC)**

Between leads .....>1GOhms  
 Between either leads to shield .....>1GOhms

**Wiring**

Checked according to the wiring schematic

**Repair**

Call factory for info

**DRAWINGS, ARRANGEMENTS**

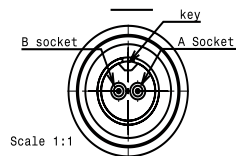


Fig AB01 (MIL-C-5015 2-Pole)

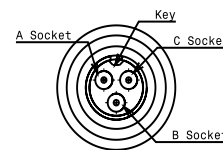


Fig AC01 (MIL-C-5015 3-Pole)

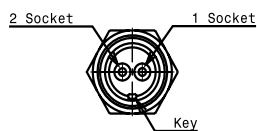


Fig AD01 (7/16'' 27 UNS)

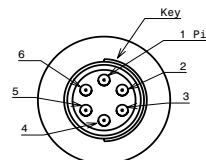


Fig AI02 (Fischer S 103 A056)

Fig AI02 (Fischer 103 A 056)

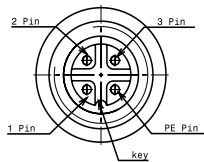


Fig AP01 (C16-1)

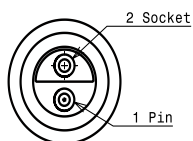


Fig AL02 (Lemo FFA.0S.302)

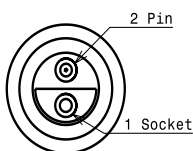


Fig AL22 (LEMO PCA.0S.302)

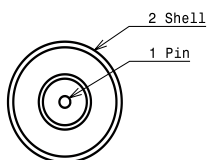


Fig AF01 (BNC, TNC)

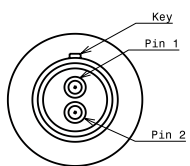


Fig AJ02 (Lemo FGG.1B.302)

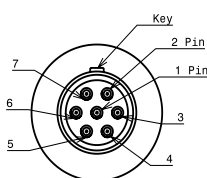


Fig AK02 (Lemo FGG.1K.307)

**DRAWINGS, WIRING**

	N1	N2	N3	N4
CC=01, 02	White	Red	--	--
CC=03	White (1)	White (2)	--	--
CC=12	White	Red	Black	--
CC=13	White (1)	White (2)	White (3)	--
CC=22	White	Blue	--	--
CC=3X	Blue	Black	White	Brown
C C = 4 X , 5X	Shield	Conductor		
CC=61	Green	Yellow	White	Brown

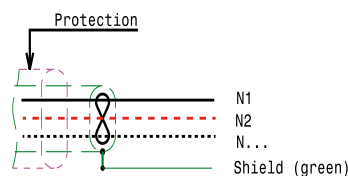


Fig WA01

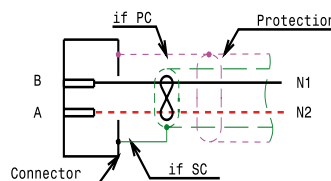


Fig WB01 (MIL-C-5015 10SL-4S)

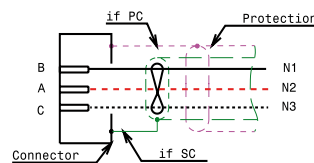


Fig WC01 (MIL-C-5015 10SL-3S)

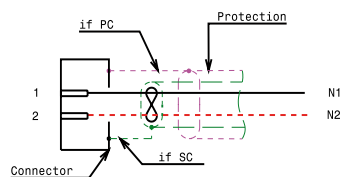


Fig WD01 (7/16 27 UNS 2A, Lemo PCA.0S.302, FFA.0S.302, FGG.1K.302)

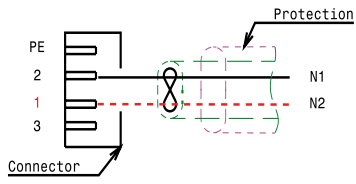


Fig WP11 (C16-1)

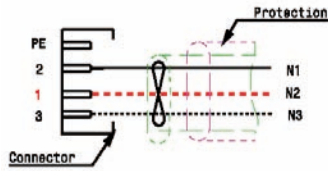


Fig WP12 (C16-1)

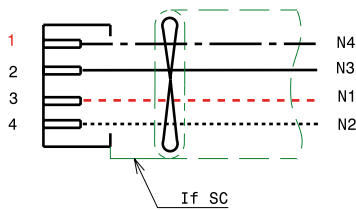


Fig WE01 (M12)

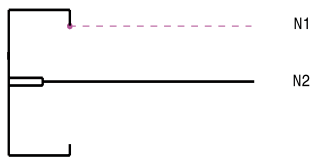


Fig WF01 (BNC & TNC)

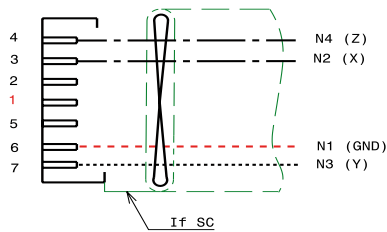


Fig WK02 (Lemo FGG.1K.307)

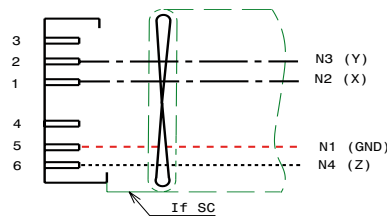


Fig WI02 (Fischer 103 A 056)