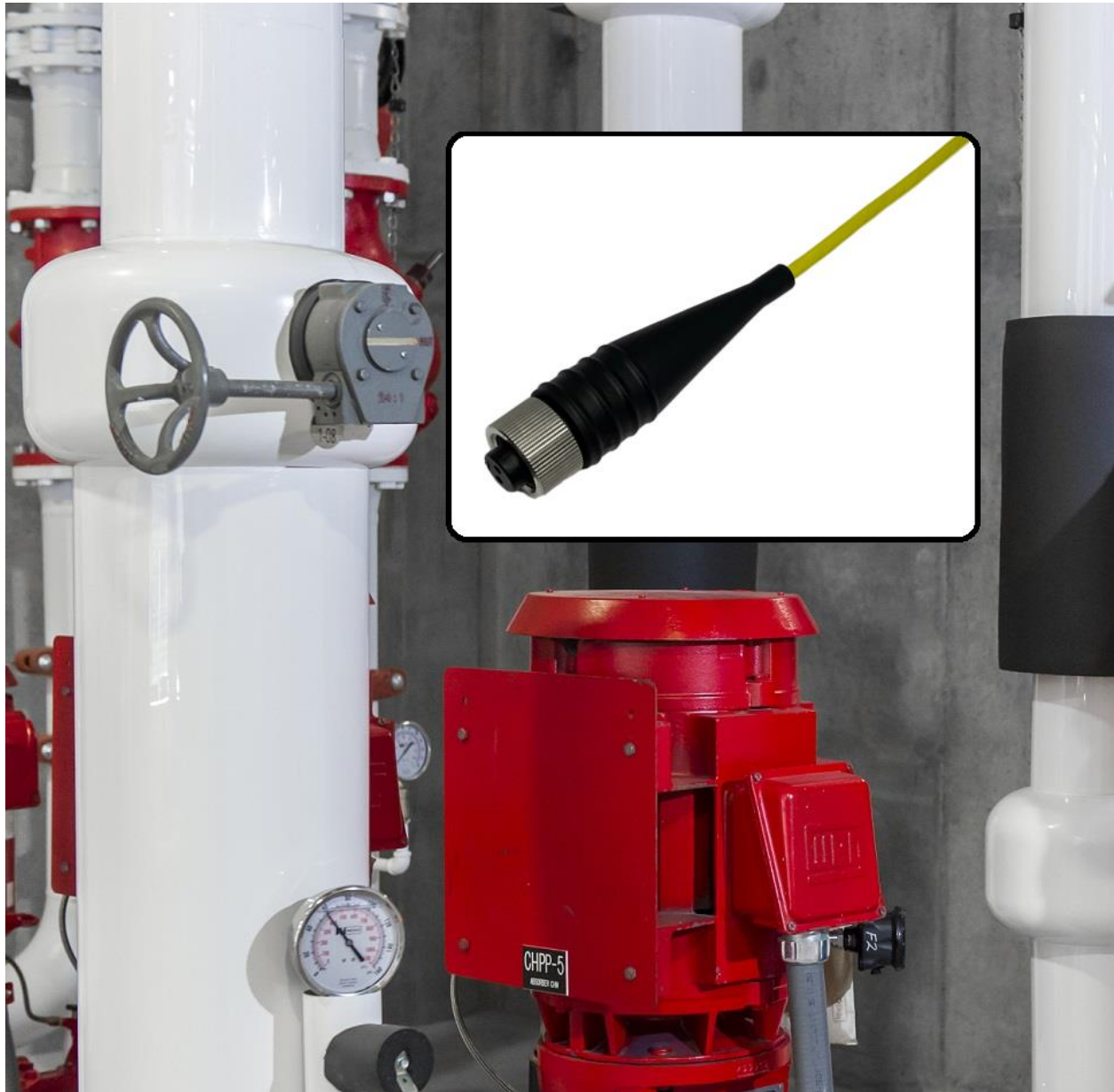


2021/2022

**CMCP Cable Assemblies and Bulk Cable
Brochure**



"Reliable Connections for Industrial Sensors"



STI Vibration Monitoring Inc.
An ISO 9001:2015 Certified Company

Condition Monitoring Custom Products

Industrial Cable Assemblies

STI offers Cable Assemblies with MS 5015 Connectors, as well as M8 and M12 Connectors. Connectors Kits for MS 5015 are available for use on-site with the Connector Installation Kit. Cable Adapters to convert from BNC to MS 5015 and vice versa are also offered. Sensor bulk cable for permanent vibration monitoring systems completes the category.



All of our Cable Assemblies can be provided in any length and standard options are in stock ready for quick delivery.

This Brochure provides an overview of the Cable Assembly Category.

For more information and the complete data sheets, please visit us online:
<https://www.stiweb.com>



STI Vibration Monitoring Inc.
An ISO 9001:2015 Certified Company

Condition Monitoring Custom Products

Why CMCP Cable Assemblies?

- Available in any length
- Rugged, with high Ingress Protection (IP68)
- Option of Locking Collar or Push-On Connector
- Available for 2-Pin and 3-Pin MS 5015 Sensors
- General Purpose Halogen Free or High Temperature Flame Retardant Cable
- Option of No Armor, Braided or Hosed Armor
- Tinned Leads, Spade Lugs or BNC Connectors on Fly End
- Competitive Pricing
- High Quality

Overview

Cable Connector Assembly Guide					
-Assemblies with 2 Pin MS-5015 Connector-					
General Purpose Halogen Free Cable					
Locking Collar IP68			Push-On Seal Tight IP68		
					
No Armor	316 SS Braided Armor	316 SS Hose Armor	No Armor	316 SS Braided Armor	316 SS Hose Armor
CMCP602L-XXX-00	CMCP602L-XXX-02	CMCP602L-XXX-01	CMCP602LST-XXX-00	CMCP602LST-XXX-02	CMCP602LST-XXX-01
Jacket Material and Insulation:		TPE (Thermoplastic Elastomer)	Jacket Color:		Black
Conductors:		2 Plus Drain Wire	Pinout / Color Code:		(A) White, (B) Black
Wire AWG:		20 AWG (0.52 mm ²),	Drain Wire AWG:		24 AWG (0.21 mm ²)
Temperature Range:		-67 to +248 °F (-55 to +120 °C)	Capacitance Per Foot:		30 pF/ft (98.42 pF/m)
Cable 0.19" (4.8 mm)	Braid: 0.23" (5.84 mm)	Hose: 0.29" (7.37 mm)	Cable 0.19" (4.8 mm)	Braid: 0.23" (5.84 mm)	Hose: 0.29" (7.37 mm)
MSRP for 16" cable \$54.00	MSRP for 16" cable \$69.00	MSRP for 16" cable \$99.00	MSRP for 16" cable \$74.00	MSRP for 16" cable \$89.00	MSRP for 16" cable \$119.00
For all cable connector assemblies: Overall Braided Shield with Drain Wire Case Isolated is Standard and Non-Isolated Versions are available (add -NI to the part id) Lifetime Warranty					
The -XXX in the part id determines the length in feet. 16, 32 and 64 feet (5, 10 and 20 meter) are standard and in stock.			Cable Connector assembly series with 3 Pin MS-5015 Connector are available with CMCP603 part id's.		



STI Vibration Monitoring Inc.
An ISO 9001:2015 Certified Company

Condition Monitoring Custom Products

Cable Connector Assembly Guide					
-Assemblies with 2 Pin MS-5015 Connector-					
High Temperature Flame Retardant Cable					
Locking Collar IP68			Push-On Seal Tight IP68		
					
No Armor	316 SS Braided Armor	316 SS Hose Armor	No Armor	316 SS Braided Armor	316 SS Hose Armor
CMCP602H-XXX-00	CMCP602H-XXX-02	CMCP602H-XXX-01	CMCP602HST-XXX-00	CMCP602HST-XXX-02	CMCP602HST-XXX-01
Jacket Material and Insulation:		FEP (Fluorinated Ethylene Propylene) and Fiberglass		Jacket Color: Yellow	
Conductors:		2 Plus Drain Wire		Pinout / Color Code: (A) White, (B) Black	
Wire AWG:		20 AWG (0.52 mm ²)		Drain Wire AWG: 24 AWG (0.21 mm ²)	
Temperature Range:		-67 to +392 °F (-55 to +200 °C)		Capacitance Per Foot: 30 pF/ft (98.42 pF/m)	
Cable 0.19" (4.8 mm)	Braid: 0.23" (5.84 mm)	Hose: 0.29" (7.37 mm)	Cable 0.19" (4.8 mm)	Braid: 0.23" (5.84 mm)	Hose: 0.29" (7.37 mm)
MSRP for 16" cable \$59.00	MSRP for 16" cable \$79.00	MSRP for 16" cable \$119.00	MSRP for 16" cable \$79.00	MSRP for 16" cable \$99.00	MSRP for 16" cable \$139.00
For all cable connector assemblies: Overall Braided Shield with Drain Wire Case Isolated is Standard and Non-Isolated Versions are available (add -NI to the part id) Lifetime Warranty					
The -XXX in the part id determines the length in feet. 16, 32 and 64 feet (5, 10 and 20 meter) are standard and in stock.			Cable Connector assembly series with 3 Pin MS-5015 Connector are available with CMCP603 part id's.		

The CMCP602HST Series High Temperature Accelerometer Extension Cables are designed for use with piezoelectric accelerometers featuring a 2 Pin Mil Spec MS 5015 connector (standard 2 pin connector). The CMCP602HST Series cables utilize a low noise cable with an overall braided copper shield to maximize the signal quality of the sensor. The overall yellow FEP jacket provides excellent temperature, chemical and sunlight protection while also providing the flexibility required to extend the life of the cable assembly. Each cable assembly is fitted with a 2 Socket MS 5015 connector that is fully encapsulated with epoxy to ensure water resistance. The CMCP602HST cable assemblies are available in both Isolated (for grounding at instrument end) and Non-Isolated (for grounded at the sensor end) versions. The North American standard is Isolated.

[Click here for the CMCP602 Series Cable Assembly webpage!](#)

CMCP602A/603A Armored Cable Assemblies

Armored Cable Assembly are ideal for environments where objects could damage the cable by piercing or crushing it. The new CMCP602A/603A Armored Cable Assembly series increases the mechanical protection at a low-cost point.

This section introduces the CMCP602A/603A series of straight 2 or 3 Socket MS 5015 connectors with stainless steel conduit.



Shown above: CMCP602A Armored Cable Assembly

Armored cable assemblies excel in Industries like Cement Production, Coal Processing, Metal Machine Operations and other harsh environments.

Features

- 2 or 3 Socket MS 5015, Locking Collar (IP68)
- 316 Stainless Steel Armored Cable
- Yellow FEP Jacketed Cable
- Flame Retardant Cabling
- Maximum Cable Temperature of 400 °F (205 °C)
- Polycarbonate and Stainless Steel Connector
- Rugged Design for Permanent Monitoring
- Isolated or Non-Isolated Shielding Available
- Braided Shield with Separate Drain Wire
- UV, Oil and Harsh Chemical Resistant
- CE Approved

Shown to the right: CMCP602A connected to Accelerometer



Note: The maximum armored length is 99 feet (30 meter).

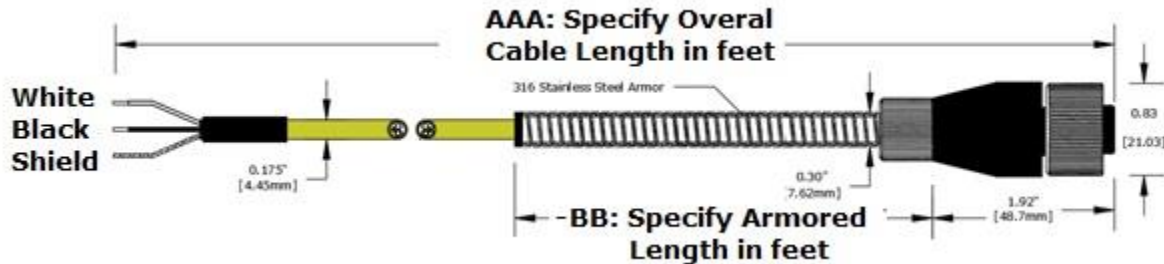
[Click here for the CMCP Armored Cable Assembly webpage!](#)



STI Vibration Monitoring Inc.
An ISO 9001:2015 Certified Company

Condition Monitoring Custom Products

Dimensions and Cable Length



Shown above: CMCP602A Customizable Cable and Armor Length

[Click here for the CMCP602A Armored Cable Assembly data sheet!](#)

Armored Cable Assembly Selection

The CMCP602A specifies an armored extension cable assembly with a 2 Socket MS 5015 Connector and the CMCP603A specifies a 3 Socket 5015 Connector. The -AAA specifies the Overall Length of the cable assembly and the -BB the Armored Length. STI Standard are Isolated Cable Assemblies (-I) with Grounding at the Instrument Side. For grounding at the Machine end (sensor side), use Non-Isolated (-NI) cable assemblies.

CMCP602A	-AAA	-BB	-CC	Armored Extension Cable, 2 Socket MS 5015
CMCP603A				Armored Extension Cable, 3 Socket MS 5015
	-016			16' (5m) Long
	-032			32' (10m) Long
	-064			64' (20m) Long
	-XXX			Specify Overall Cable Length in Feet
		-02		2' (0.6m) Armored Length
		-05		5' (1.5m) Armored Length
		-XX		Specify Armored Length in Feet
			-I	Isolated (Shield Not Tied to Connector) **STI Standard**
			-NI	Non-Isolated (Shield Tied to Connector)

The Base Price for the machined connector is \$ 40.00 plus \$ 1.25 per Foot of Cable and \$ 2.00 per Foot of Armor.

Example: Part ID CMCP602A-032-05-I

Armored Cable Assembly with 2 Socket MS 5015 Connector, 32 ft (10 m) Overall Cable Length, 5 ft (1.5 m) Armored Length, Isolated, MSRP: \$ 90.00

M8 and M12 Cable Connector Assemblies

STI offers both M8 and M12 style cable assemblies for accelerometers, proximity sensors and data collectors. Cable assemblies are stocked with 5 m (16"), 10 m (32") or 20 meter (64 feet) cables and are available with top entry or side entry.

CMCP603C 3-Pin M8 Accelerometer Extension Cable

The CMCP603C extension cables are designed to work with all the CMCP1100C line of Accelerometers using a M8 3-Pin connector. The connectors with brass/gold plated contacts are molded to the cable and are rated IEC IP67. The CMCP603C cables are available with top entry or side entry connector in any cable length. The black TPU insulated cable and connectors are rated -40° to +90° C (-40° to +184° F). The cable is 0.170" in diameter, shielded and 24 AWG wires.



Shown above: CMCP603C-S-05-00 3-Pin M8 Accelerometer Extension Cable with side exit, 5-meter cable length and blunt cut

[Click here for the CMCP603C M8 Cable Assembly data sheet!](#)

CMCP605M Series M12 Cable Assemblies

The CMCP605 extension cables work with Sensors featuring a M12 Connector with 4 or 5 Pins.



Shown above: CMCP605M series of M12 Cable Assemblies

Features

- M12 with Molded Strain Relief
- IP67 Locking Collar Connector
- Straight or Side Exit Versions Available
- 5 Pin M12 Connector Mates with 4 and 5 Pin Sensors
- Twisted/Shielded Cable with Drain Wire
- General Purpose PUR Jacketed Cable for up to +120° C
- Low Cost, -starting at MSRP \$ 64.00 with 5 m (16") cable length

[Click here for the CMCP605 M12 Cable Assembly data sheet!](#)



STI Vibration Monitoring Inc.
An ISO 9001:2015 Certified Company

Condition Monitoring Custom Products

Bulk Cable

STI's bulk sensor cabling is available in 2 and 3 conductors with either a general purpose halogen free or high temperature flame retardant jacket. These cables are used in various field wiring installation applications for permanent vibration monitoring systems.

CMCP402L General Purpose Halogen Free Cable

STI's CMCP402L 2 Conductor Bulk Cable is the same cable used on our popular CMCP602L and CMCP602LST accelerometer extension cable assemblies. The CMCP402L can be used for field wiring from local junction boxes or for field installable connectors.

- General Purpose Halogen Free Cable
- Two Conductor Cable (White and Black), 20 AWG
- Overall Braided Shield with Drain Wire
- Black TPE (Thermoplastic Elastomer) Jacket
- Rated for -76 to +230 Deg. F (-60 to +110 Deg. C)
- UV, Oil and Chemical Resistant
- Flexible and Abrasion Resistant
- Sold by the Foot, MSRP \$ 1.25 per foot



Shown above: CMCP40L-XXX

CMCP402H High Temperature Flame Retardant Cable

STI's CMCP402H Two Conductor High Temperature Bulk Cable is the same cable used on our CMCP602H and CMCP602HST cable assemblies for accelerometers.

- High Temperature Flame Retardant Cable
- Two Conductor Cable (White and Black), 20 AWG
- Overall Braided Shield with Drain Wire
- Yellow FEP (Fluorinated Ethylene Propylene) Jacket
- Rated for -76 to +392 Deg. F (-60 to +200 Deg. C)
- UV, Oil and Chemical Resistant
- Flexible and Abrasion Resistant
- Sold by the Foot, MSRP \$ 1.50 per foot



Shown above: CMCP40H-XXX

[Click here for the CMCP Bulk Cable Webpage!](#)

Connector Kits

The CMCP602CK Connector Kits are field installable 2 Socket MS 5015 Connectors which can be used for all standard accelerometers. The CMCP603CK Connector Kits are 3 Socket MS 5015 Connectors which can be used for Dual Output accelerometers. The kits include a metal backshell for improved RFI protection and a fluoro-rubber boot. Kits are available with 1, 20, 25, 50 or 100 connectors.

- 2 Socket or 3 Socket MS 5015, Size 10SL
- Crimp On Contacts
- Locking Collar (Screw On) or Push-On (Seal-Tight)
- Multi-Connector Kits Available



Shown above: CMCP602CKL 2 Socket MS Connector Kit, Locking Collar
MSRP \$ 44.00



Shown above: CMCP602CK 2 Socket MS Connector Kit, Push-On
MSRP \$ 42.00

Suggested Bulk Cable: CMCP402L General Purpose or CMCP402H High Temperature

[Click here for the CMCP Connector Kit webpage!](#)

CMCP600C-K Connector Tool Kit

The CMCP600C-K is a full accessory kit for use on-site to enable installation of both 2 and 3 Socket MS 5015 Crimp On Style Connectors. The tools in this kit enable the installer to cut, strip and crimp the connectors on site. Connector kits are available for both 2 and 3 Pin MS sensors and can be ordered as Push On or Locking Collar version which includes a stainless steel lock nut. Connector kits are sold separately.

Kit Contents

- Cable Jacket Stripper
- Wire Strippers
- Pin Crimp Tool
- Connector Crimp Tool
- Pin Insertion Tool
- Epoxy Dispensing Tool
- Epoxy Mixing Nozzles (5)
- CMCP600E Epoxy Pack (for 50 Connectors)
- Travel Case
- MSRP: \$1,595.00



Shown above: CMCP600C-K Connector Tool Kit

[Click here for the CMCP60C-K Connector Tool Kit data sheet!](#)

Cable Adapter



CMCP624 Female 2 Pin MIL to BNC Plug Adapter

MSRP: \$65.00



CMCP625 Female 2 Pin MIL to BNC Jack Adapter

MSRP: \$65.00



CMCP626 2 Pin MIL to BNC Plug Adapter

MSRP: \$65.00



CMCP627 2 Pin MIL to BNC Jack Adapter

MSRP: \$65.00

[Click here for the CMCP Cable Adapter webpage!](#)