



FITTINGS MC SERIES

ALUMINUM CABLE CONNECTORS



MC

Class II, Div. 1 & 2, Groups E, F, G
Class III
Class I, Zone 2†, Group IIC, Zone 20
Suitable for wet locations
Types 3, 4X IP66
IPX8 6ft 1hr
Suitable for use in Class I, Div. 2
locations when installed
according to NEC Articles 501.10
Ta -50°C to 60°C



FEATURES-SPECIFICATIONS

Features

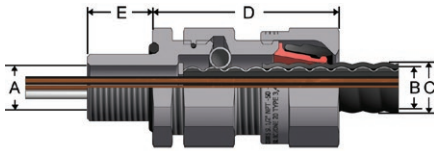
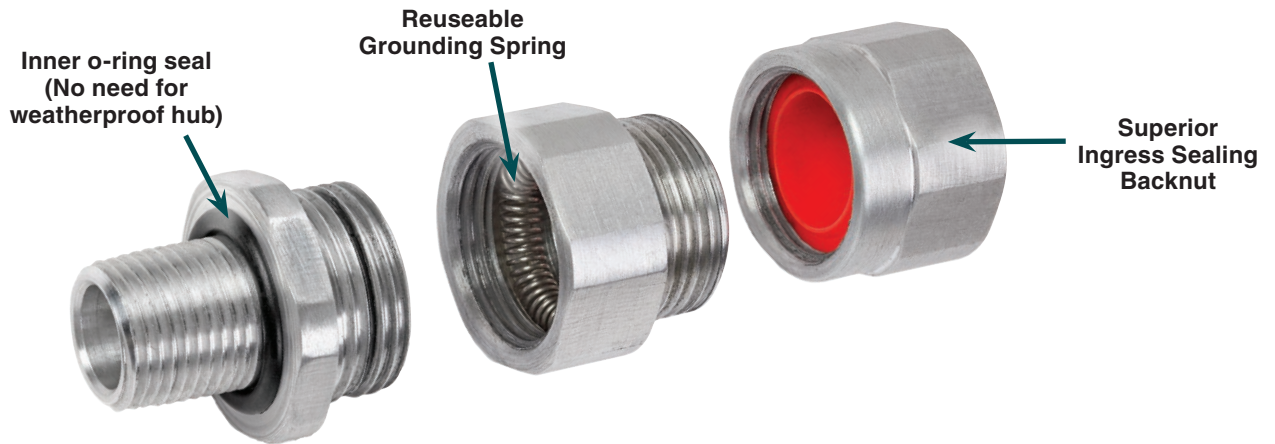
- Used exclusively for armored and unarmored cable types
- Entry component grommet prevents the need for weatherproof hubs in sheet metal enclosures
- Superior and robust design for ingress protection
- Robust threads and world class seal enables easy installation

Materials

- Body – Copper free aluminum (less than 1/10 of 1%)
- Ground Spring – Stainless Steel
- Backnut Seal – Thermoplastic elastomer (silicone)
- Backnut Clamp – Nylon
- Inner and Outer O-rings – Nitrile



Construction Details



SUITABLE ARMORED & UNARMORED CABLE TYPES

AC-	AC90, ACWU90, AC90-HL, ACWU90-HL, ACG90, ACGWU90
MC-	MCC, MCI, MCI-A, MC-HL
RA-	RA90, RA90-HL
TECK-	TECK90, TECK90-HL
TRAY-	TC, TC-ER, TC-ER-HL, PLTC-ER, ITC, ITC-ER, MV, TYPE P

Catalog Number	Entry Thread Size (NPT)	Cable Acceptance Details						Max Length 'D'	NPT Length 'E'	Hexagon Dimensions	
		Max Number of Cores	Through Diameter 'A'	Armor Diameter 'B'		Diameter 'C'				Across Flats	Across Corners
				Min.	Max.	Min.	Max.				
MC1B	1/2"	6	.47" (11.9)	0.43" (10.9)	0.55" (14.0)	0.51" (13.0)	0.63" (16.0)	1.7" (43)	0.83" (21.1)	1.06" (26.9)	1.12" (28.4)
MC1C	1/2"	10	0.56" (14.2)	0.52" (13.2)	0.74" (18.8)	0.60" (15.2)	0.82" (20.8)	2.3" (58)	0.83" (21.1)	1.42" (36)	1.50" (38.1)
MC2	3/4"	21	0.80" (20.3)	0.65" (16.5)	0.95" (24.1)	0.73" (18.5)	1.03" (26.2)	2.5" (64)	0.84" (21.3)	1.61" (41)	1.69" (42.9)
MC3	1"	42	1.04" (26.4)	0.89" (22.6)	1.23" (31.2)	0.97" (24.6)	1.31" (33.3)	2.6" (66)	1.03" (26.2)	1.97" (50)	2.13" (54.1)
MC4	1 1/4"	73	1.28" (32.5)	1.15" (29.2)	1.48" (37.6)	1.23" (31.2)	1.56" (39.6)	3.1" (79)	1.05" (26.7)	2.36" (60)	2.50" (63.5)
MC5	1 1/2"	80	1.66" (42.2)	1.39" (35.3)	1.62" (41.1)	1.47" (37.3)	1.78" (45.2)	4.5" (114.3)	1.07" (27.2)	2.95" (74.9)	3.06" (77.7)
MC6	2"	80	1.98" (50.3)	1.39" (35.3)	1.89" (48)	1.47" (37.3)	2.04" (51.8)	4.5" (114.3)	1.10" (27.9)	2.95" (74.9)	3.06" (77.7)
MC7	2 1/2"	100	2.46" (62.5)	1.85" (47)	2.36" (60)	1.93" (49)	2.51" (63.8)	4.7" (119.4)	1.62" (41.1)	3.54" (89.1)	3.65" (92.7)
MC8	3"	120	2.93" (74.4)	2.19" (55.6)	2.81" (71.4)	2.27" (57.7)	3.01" (76.5)	4.8" (121.9)	1.68" (42.7)	4.06" (103.1)	4.22" (107.2)
MC9	3 1/2"	120	3.40" (86.4)	2.69" (68.3)	3.28" (83.3)	2.77" (70.4)	3.46" (87.9)	4.8" (121.9)	1.73" (43.9)	4.53" (115.1)	4.69" (119.1)
MC0	4"	120	3.92" (99.6)	3.28" (83.3)	3.82" (97)	3.46" (87.9)	4.07" (103.4)	5.1" (129.5)	1.78" (45.2)	5.12" (130)	5.33" (135.4)

Cable armor diameter and cable jacket diameter refer to the dimensions across the crest.

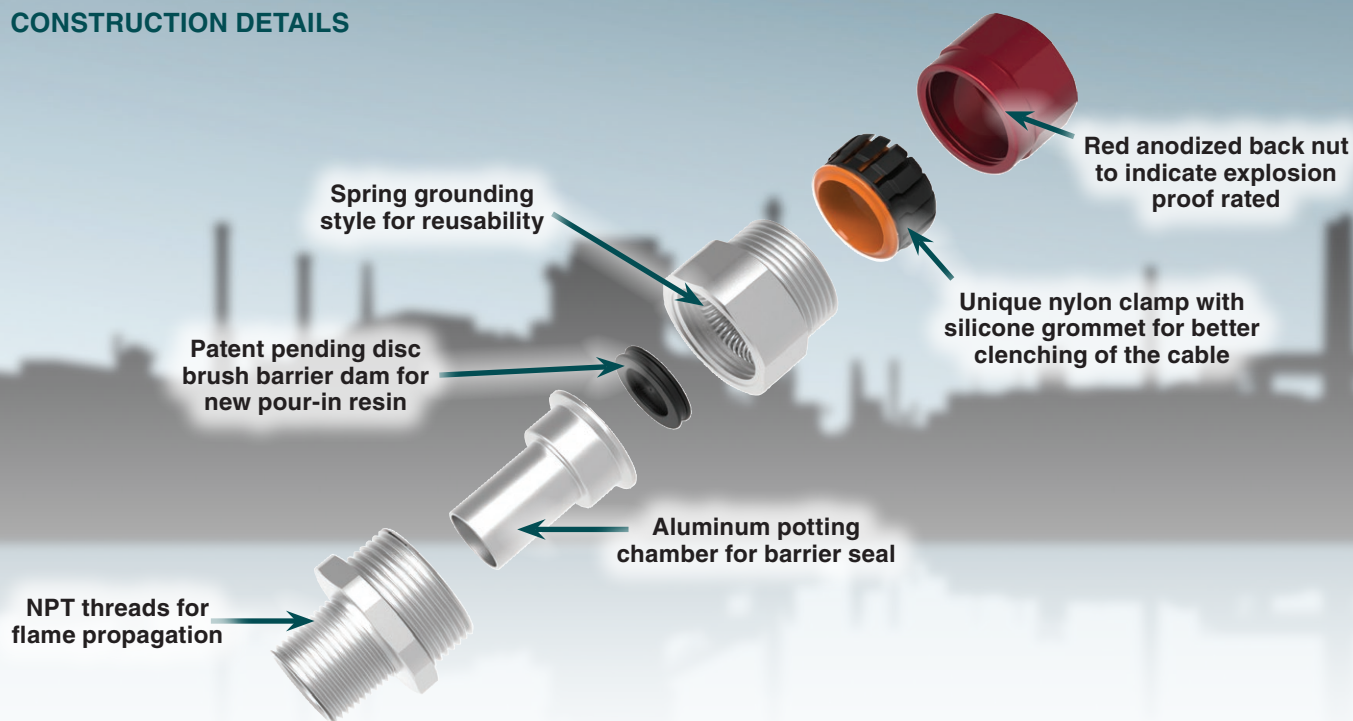
† Where explosion proof/flameproof enclosures are being used the MC must be installed in conjunction with an approved sealing fitting. In Division 2 areas the MC can be fitted directly to an enclosure which has no source of ignition.



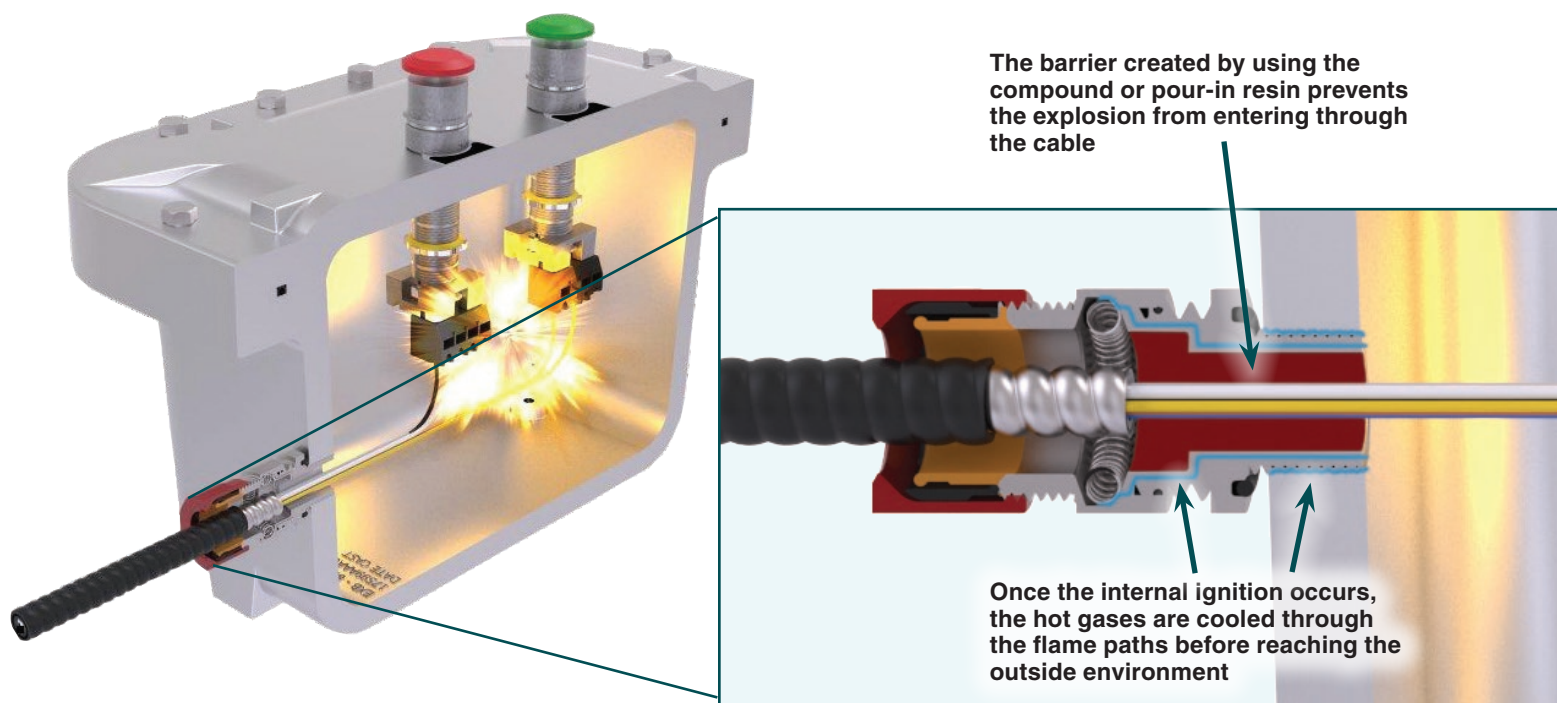
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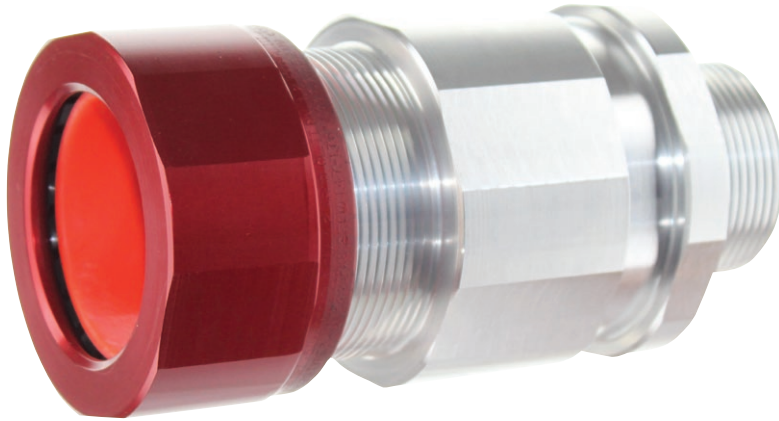
MC2X SERIES

CONSTRUCTION DETAILS



WHEN AN INTERNAL EXPLOSION OCCURS...





Class I, Div. 1 & 2, Groups A, B, C, D
Class II, Div. 1 & 2, Groups E, F, G
Class III
Class I, Zone 1, Groups IIC, Zone 20
Type 3, 4, 4X, 6, IP66, IPX8 6ft/1hr
-50°C to 60°C



FEATURES-SPECIFICATIONS

Features

- Used exclusively as a barrier gland for armored and unarmored cable
- New patented disc brush dam allows for Hawke EXpress and CELOX resin as a barrier solution
- Uses a stainless steel grounding spring for reusability
- Red anodized backnut to indicate it is for hazardous explosive areas
- Enhanced middlenut design to allow for better ingress protection and non-exposed threads
- Hand putty comes standard for barrier solution
- Liquid resin barrier solution is sold separately. For more information, see feature page about the resin.

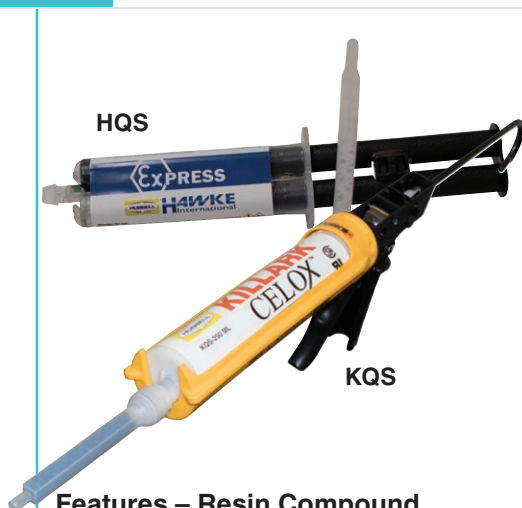
Materials

- Body – Copper-free aluminum
- O-ring – silicone
- Sealing Clamp – nylon
- Sealing Grommet – silicone
- Disc brush – steel channel/nylon fibers
- Disc Grommet – neoprene
- Spring – stainless steel



FITTINGS

MC2X SERIES



Features – Resin Compound

- Two-part epoxy resin that is self-mixed through a static nozzle
- Easy to use syringe and caulk style dispensers that eliminates any hand mixing and prepping
- Eliminates excess waste as each tube is reusable and comes with additional nozzles
- Fast curing formula that allows for same day installation and energization of equipment
- Various resin sizes available for multiple gland installs



SEALING METHOD	
CATALOG NUMBER	SIZE PACKAGE
HQS-014 ML	14ml (.47oz)
HQS-024 ML	24ml (.81oz)
HQS-050 ML	50ml (1.70oz)
KQS-250 ML	250ml (8.45oz)

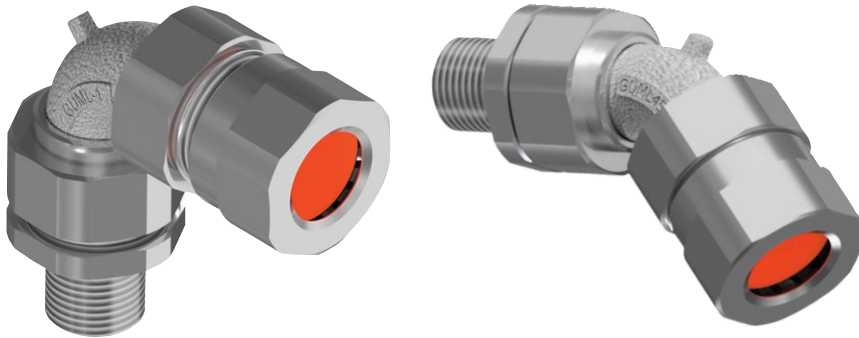
SUITABLE ARMORED & UNARMORED CABLE TYPES	
AC-	AC90, ACWU90, AC90-HL, ACWU90-HL, ACG90, ACGWU90
MC-	MCC, MCI, MCI-A, MC-HL
RA-	RA90, RA90-HL
TECK-	TECK90, TECK90-HL
TRAY-	TC, TC-ER, TC-ER-HL, PLTC, PLTC-ER, ITC, ITC-ER, MV, TYPE P

Catalog Number	Entry Thread Size (NPT)	Cable Acceptance Details						Max Length 'D'	NPT Length 'E'	Hexagon Dimensions	
		Max Number of Cores	Through Diameter 'A'	Armor Diameter 'B'		Diameter 'C'				Across Flats	Across Corners
				Min.	Max.	Min.	Max.				
MC2X1B	1/2"	6	0.39" (9.9)	0.43" (10.9)	0.55" (14.0)	0.51" (13.0)	0.63" (16.0)	2.6" (66)	0.83" (21.1)	1.06" (26.9)	1.12" (28.4)
MC2X1C	1/2"	10	0.48" (12.2)	0.52" (13.2)	0.74" (18.8)	0.60" (15.2)	0.79" (20)	2.9" (73.6)	0.83" (21.1)	1.42" (36)	1.50" (38.1)
MC2X2	3/4"	21	0.71" (18.1)	0.65" (16.5)	0.95" (24.1)	0.73" (18.5)	1.00" (25.4)	3.1" (78.7)	0.84" (21.3)	1.61" (41)	1.69" (42.9)
MC2X3	1"	42	0.96" (26.4)	0.89" (22.6)	1.23" (31.2)	0.97" (24.6)	1.31" (33.3)	3.2" (81.3)	1.03" (26.2)	1.97" (50)	2.13" (254.1)
MC2X4	1-1/4"	73	1.16" (29.5)	1.15" (29.5)	1.48" (37.6)	1.23" (31.2)	1.56" (39.6)	3.6" (91.4)	1.05" (26.7)	2.36" (60)	2.50" (63.5)
MC2X5	1-1/2"	80	1.35" (34.3)	1.39" (35.3)	1.62" (41.1)	1.47" (37.3)	1.78" (45.2)	4.5" (114.3)	1.07" (27.2)	2.95" (75)	3.06" (77.8)
MC2X6	2"	80	1.62" (41.1)	1.39" (35.3)	1.89" (48.0)	1.47" (37.3)	2.04" (51.8)	4.5" (114.3)	1.10" (27.9)	2.95" (75)	3.06" (77.8)
MC2X7	2-1/2"	100	2.09" (53.1)	1.85" (47.0)	2.36" (59.9)	1.93" (49.0)	2.51" (63.8)	4.7" (119.4)	1.62" (41.1)	3.54" (90)	3.65" (92.8)
MC2X8	3"	120	2.52" (64.0)	2.19" (55.6)	2.81" (71.4)	2.27" (57.7)	3.01" (76.5)	4.8" (121.9)	1.68" (42.7)	4.06" (103)	4.22" (107.2)
MC2X9	3-1/2"	120	3.01" (76.5)	2.69" (68.3)	3.28" (83.3)	2.77" (70.4)	3.46" (87.9)	4.8" (121.9)	1.73" (43.9)	4.53" (115)	4.69" (119.2)
MC2X0	4"	120	3.50" (88.9)	3.28" (83.3)	3.82" (97.0)	3.46" (87.9)	4.07" (103.4)	5.1" (129.5)	1.78" (45.2)	5.12" (130)	5.33" (135.3)

Cable armor diameter and cable jacket diameter refer to the dimensions across the crest.



ALUMINUM CABLE CONNECTORS



Class II, Div. 1, Groups E, F, G
Class III,
Zone 20, IP66,
Types 3, 4X
Suitable for use in Class I, Div. 2 locations
when installed according to NEC
Articles 501.10
Ta -50°C to +60°C



FEATURES-SPECIFICATIONS

Features

- 360° armor grounding spring is reusable
- Provides sealing backnut plus inner O-ring seal to prevent moisture ingress to the cable armor and enclosure
- Copper-free aluminum construction for harsh, corrosive and hazardous duty
- Patented combination union elbow that allows proper 360° alignment where space is limited
- Compact 45° and 90° bends for optimized wiring configurations
- Armor is terminated prior to bend allowing for minimal bending radius

Materials

- Body: Copper-free aluminum (less than 1% of 1%)
- Backnut Seal: Thermoplastic elastomer (silicone)
- Backnut Clamp: Nylon
- Inner and Outer O-rings: Nitrile

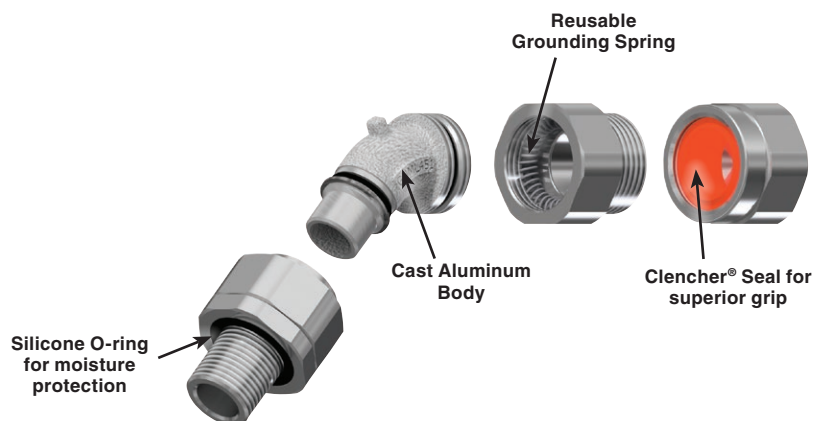
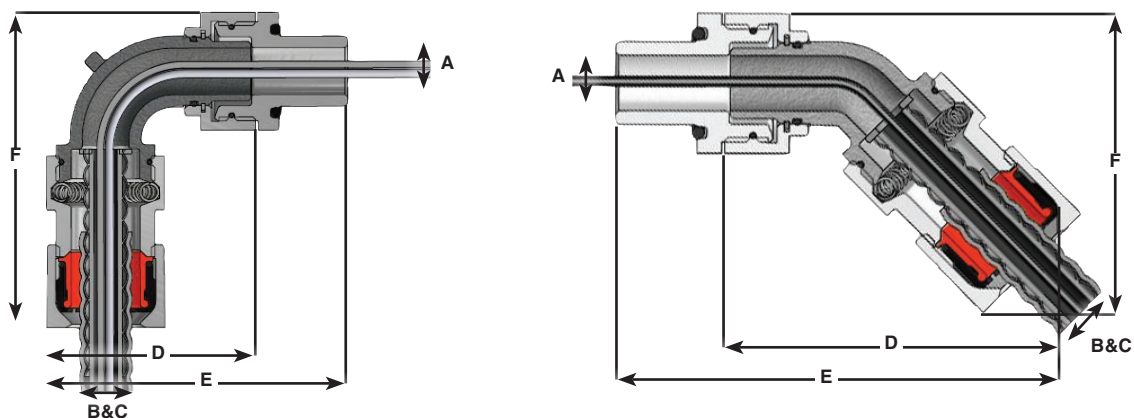


FITTINGS

MC 45°/90° SERIES

ALUMINUM CABLE CONNECTORS

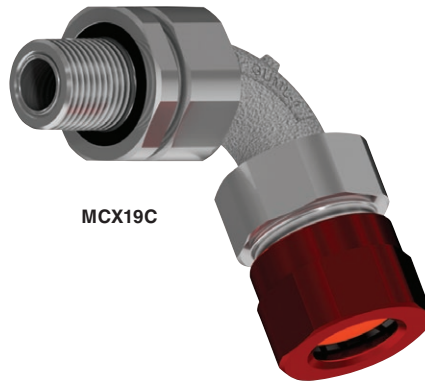
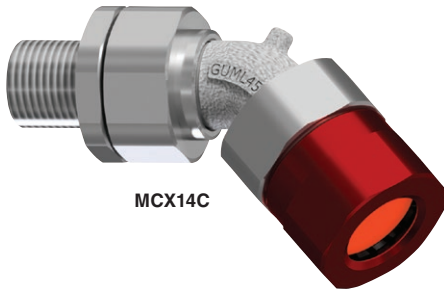
Catalog Number	Entry Thread Size (NPT)	Bend	Cable Acceptance Details						Max Length 'D'	Max Length 'E'	Max Length 'F'
			Max Number of Cores	Through Diameter 'A'	Armor Diameter 'B'		Diameter 'C'				
					Min.	Max.	Min.	Max.			
MC14C	1/2"	45°	10	.48" (12.2)	.52" (13.2)	.74" (18.8)	.60" (15.2)	.82" (20.8)	3.25" (82.6)	4.35" (110.5)	2.05" (52)
MC24C	3/4"	45°	21	.71" (18)	.65" (16.5)	.95" (24.1)	.73" (18.5)	1.03" (26.2)	3.43" (87.1)	4.55" (115.6)	2.19" (55.6)
MC19C	1/2"	90°	10	.48" (12.2)	.52" (13.2)	.74" (18.8)	.60" (15.2)	.82" (20.8)	2.51" (63.8)	3.62" (91.9)	3.51" (89.2)
MC29	3/4"	90°	21	.71" (18)	.65" (16.5)	.95" (24.1)	.73" (18.5)	1.03" (26.2)	2.61" (66.3)	3.73" (94.7)	3.60" (91.4)



SUITABLE ARMORED & UNARMORED CABLE TYPES	
AC-	AC90, ACWU90, AC90-HL, ACWU90-HL, ACG90, ACGWU90
MC-	MCC, MCI, MCI-A, MC-HL
RA-	RA90, RA90-HL
TECK-	TECK90, TECK90-HL
TRAY-	TC, TC-ER, TC-ER-HL, PLTC, PLTC-ER, ITC, ITC-ER, MV, TYPE P



ALUMINUM CABLE CONNECTORS



Class I, Div. 1, Groups A, B, C, D
Class II, Div. 1, Groups E, F, G
Class III,
CL. I Zone 1 GR. IIC. Zone 20
Types 3, 4X
Ta -50°C to +60°C



FEATURES-SPECIFICATIONS

Features

- 360° armor grounding spring is reusable
- Provides a barrier seal between the individual insulated cores within the cable
- Assembly of the cable gland compresses and distributes the compound evenly to create a barrier seal at the point of entry into the enclosure.
- Provides a cable retention and low smoke fume, zero halogen seal onto the cables outer sheath
- Copper-free aluminum construction for harsh, corrosive and hazardous areas
- Patented combination union elbow that allows proper 360° alignment where space is limited
- Compact 45° and 90° bends for optimized wiring configurations
- Armor is terminated prior to bend allowing for minimal bending radius
- Backnut is anodized RED to indicate HAZARDOUS area product

Materials

- Body: Copper-free aluminum (less than 1/10 of 1%)
- Backnut Seal: Thermoplastic elastomer (silicone)
- Backnut Clamp: Nylon
- Inner and Outer O-rings: Nitrile

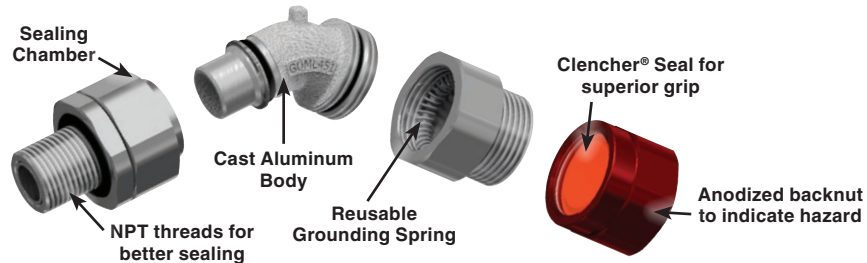
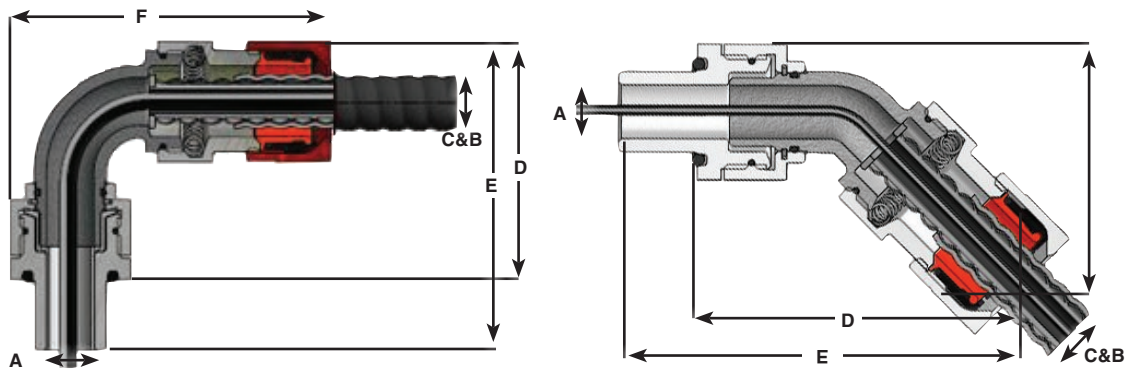


FITTINGS

MCX 45°/90° SERIES

ALUMINUM CABLE CONNECTORS

Catalog #	Entry Thread Size (NPT)	Bend	Cable Acceptance Details						Max Length 'D'	Max Length 'E'	Max Length 'F'
			Max Number of Cores	Through Diameter 'A'	Armor Diameter 'B'		Diameter 'C'				
					Min.	Max.	Min.	Max.			
MCX14C	1/2"	45°	10	.48" (12.2)	.52" (13.2)	.74" (18.8)	.60" (15.2)	.82" (20.8)	3.25" (82.6)	4.35" (110.5)	2.05" (52)
MCX24	3/4"	45°	21	.71" (18)	.65" (16.5)	.95" (24.1)	.73" (18.5)	1.03" (26.2)	3.43" (87.1)	4.55" (115.6)	2.19" (55.6)
MCX19C	1/2"	90°	10	.48" (12.2)	.52" (13.2)	.74" (18.8)	.60" (15.2)	.82" (20.8)	2.51" (63.8)	3.62" (91.9)	3.51" (89.2)
MCX29	3/4"	90°	21	.71" (18)	.65" (16.5)	.95" (24.1)	.73" (18.5)	1.03" (26.2)	2.61" (66.3)	3.73" (94.7)	3.60" (91.4)



SUITABLE ARMORED & UNARMORED CABLE TYPES

AC-	AC90, ACWU90, AC90-HL, ACWU90-HL, ACG90, ACGWU90
MC-	MCC, MCI, MCI-A, MC-HL
RA-	RA90, RA90-HL
TECK-	TECK90, TECK90-HL
TRAY-	TC, TC-ER, TC-ER-HL, PLTC, PLTC-ER, ITC, ITC-ER, MV, TYPE P