



# **MC & MCX Series** Armored & Unarmored Cable Glands

Innovated Reliable Connectivity



GLENGHER®

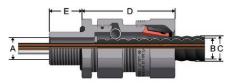
**MC SERIES** 

#### **FEATURES-SPECIFICATIONS** Applications

Designed for use with jacketed interlocked, continuously corrugated and welded armor cable (all types shown in chart below). Install where it is essential to provide positive grounding to the cable and for a Type 3,4 connection.

#### Features

- 360° armor grounding spring is <u>reusable</u>.
- Robust threads and world class seal enables <u>easy installation</u> with minimal torque required.
- Design meets and exceeds third party requirements for <u>cable retention</u>.
- Provides sealing back nut plus inner O-ring seal to <u>prevent moisture ingress</u> to the cable armor and enclosure.
- Copper free aluminum construction for <u>hostile, corrosive</u> and certain hazardous locations



#### Materials

- Body Copper free aluminum (less than 4/10 of 1%)
- Ground Spring Stainless Steel
- Backnut Seal Thermoplastic elastomer (silicone)

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 MC5 thru MC0: IPX8 6ft 1hr Suitable for use in hazardous location applications when installed according to NEC Articles 501.10



- Backnut Clamp Nylon
- Inner and Outer O-rings Nitrile

#### **Operating Temperature Range**

-50°C to +60°C



	SUITABLE ARMORED/METAL CLAD 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

	ENTRY			CABLE ACCEPT	ANCE DETAILS			MAX	NPT	HEXAGON D	IMENSIONS
CATALOG	THREAD	MAX	THROUGH	ARMOR DI	AMETER 'B'	DIAME	TER 'C'	LENGTH	LENGTH	ACROSS	ACROSS
NUMBER	SIZE (NPT)	NUMBER OF CORES	DIAMETER 'A'	MIN.	MAX.	MIN.	MAX.	ʻD'	'Ε'	FLATS	CORNERS
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" (254.1)
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 ½"	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)
MCO	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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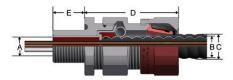
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#### **FEATURES-SPECIFICATIONS** Applications

Designed for use with jacketed interlocked, continuously corrugated and welded armor cable (all types shown in chart below). Install where it is essential to provide positive grounding to the cable with a complete gas block/explosion proof seal. Also for a Type 3, 4X connection.

#### Features

- 360° armor grounding spring is reusable.
- Robust threads and world class seal enables <u>easy installation</u> with minimal torque required.
- Provides a <u>barrier seal</u> between the individual insulated cores within the cable and prevents entry of the pro-ducts of an explosion into 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 cable retention and a low smoke and fume, zero halogen seal onto the cables outer sheath.
- Provides sealing back nut plus inner O-ring seal to <u>prevent moisture ingress</u> to the cable armor and enclosure
- Copper free aluminum construction for harsh, corrosive and hazardous duty
- Back nut is <u>RED</u> to indicate HAZARDOUS area product

Class I, Div. 1 & 2, Groups A, B, C, D Class II, Div. 1 & 2, Groups E, F, G Class III Class I, Zones 1 & 2, Group IIC, Zone 20 Types 3, 4X IP66 MCX5-MCX0: IPX8 6ft/1hr.

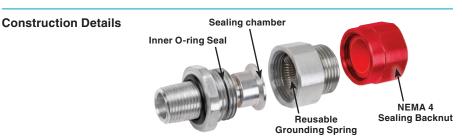


#### Materials

- Body Copper free aluminum (less than 4/10 of 1%)
- Ground Spring Stainless Steel
- Backnut Seal Thermoplastic elastomer (silicone)
- Backnut Clamp Nylon
- Inner and Outer O-rings Nitrile

#### **Operating Temperature Range**

-50°C to +60°C



	SUITABLE ARMORED/METAL CLAD 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

	ENTRY			CABLE ACCEPT	ANCE DETAILS					HEXAGON D	IMENSIONS
CATALOG	THREAD SIZE	MAX	THROUGH	ARMOR DI	AMETER 'B'	DIAME	TER 'C'	MAX LENGTH 'D'		ACROSS	ACROSS
NUMBER	(NPT)	NUMBER OF CORES	DIAMETER 'A'	MIN.	MAX.	MIN.	MAX.		'E'	FLATS	CORNERS
MCX1B	1/2"	6	0.39" (9.9)	0.43" (10.9)	0.55" (14.0)	0.51" (13.0)	0.63" (16.0)	2.1" (53.3)	0.83" (21.1)	1.06" (26.9)	1.12" (28.4)
MCX1C	1/2"	10	0.48" (12.2)	0.52" (13.2)	0.74" (18.8)	0.60" (15.2)	0.82" (20.8)	2.4" (61)	0.83" (21.1)	1.42" (36)	1.50" (38.1)
MCX2	3/4"	21	0.71" (18.1)	0.65" (16.5)	0.95" (24.1)	0.73" (18.5)	1.03" (26.2)	2.6" (66)	0.84" (21.3)	1.61" (41)	1.69" (42.9)
MCX3	1"	42	0.96" (26.4)	0.89" (22.6)	1.23" (31.2)	0.97" (24.6)	1.31" (33.3)	2.7" (69)	1.03" (26.2)	1.97" (50)	2.13" (254.1)
MCX4	1 1/4"	73	1.16" (29.5)	1.15" (29.5)	1.48" (37.6)	1.23" (31.2)	1.56" (39.6)	3.2" (81)	1.05" (26.7)	2.36" (60)	2.50" (63.5)
MCX5	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)
MCX6	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)
MCX7	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)
MCX8	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)
MCX9	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)
MCXO	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.







#### FEATURES-SPECIFICATIONS Applications:

Designed for use with jacketed interlock, continuously corrugated and welded armor cable. Rated for indoor and outdoor use and allows for a 45 and 90 degree bend where space is limited.

#### 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
- Patent pending combination union elbow that allows proper 360° alignment where space is limited
- Compact 45° & 90° bends for optimized wiring configurations
- Armor is terminated prior to bend allowing for minimal bending radius



· Body: Copper-free aluminum (less than

Backnut Seal: Thermoplastic elastomer

Materials:

4/10 of 1%)

(silicone)

-50°C to +60°C

Backnut Clamp: Nylon

• Inner and Outer O-rings: Nitrile

Silicone O-ring

for moisture

protection

**Operating Temperature:** 

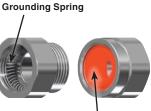
Class II, Div. 1, Groups E, F, G Class III, Zone 20, IP66, Types 3, 4X Suitable for use in hazardous location application when installed according to NEC Articles 501.10

Reusable



**Cast Aluminum** 

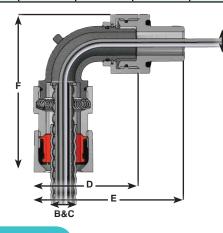
Body

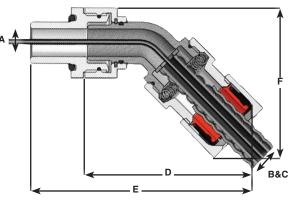


Clencher<sup>®</sup> Seal for superior grip



	ENTRY				CABLE ACCEPT	ANCE DETAILS					
CATALOG	THREAD SIZE	BEND	MAX	THROUGH	ARMOR DIA	AMETER 'B'	DIAME	TER 'C'	MAX LENGTH	MAX LENGTH	MAX LENGTH
NUMBER	(NPT)		NUMBER OF Cores	DIAMETER 'A'	MIN.	MAX.	MIN.	MAX.	·U <sup>/</sup>	'E'	11
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)







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#### FEATURES-SPECIFICATIONS Applications:

Designed for use with jacketed interlock, continuously corrugated and welded armor cable where it is essential to prevent explosive vapors from passing through electrical devices. This series provides a 45 and 90 degree bend for the most compact space. It is rated for indoor and outdoor use.

#### 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



- Patent pending combination union elbow that allows proper 360° alignment where space is limited
- Compact 45° & 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

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



#### Materials:

- Body: Copper-free aluminum (less than 4/10 of 1%)
- Backnut Seal: Thermoplastic elastomer (silicone)
- Backnut Clamp: Nylon
- Inner and Outer O-rings: Nitrile

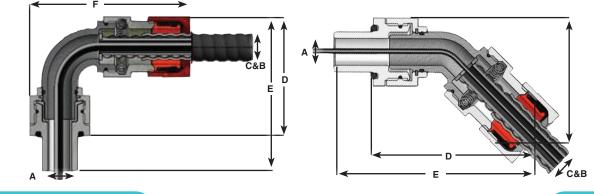
#### **Operating Temperature:**

-50°C to +60°C



	SUITABLE ARMORED/METAL CLAD 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

	ENTRY				CABLE ACCEPT	ANCE DETAILS					
CATALOG #	THREAD SIZE	BEND	MAX	THROUGH	ARMOR DI	AMETER 'B'	'B' DIAMETER 'C'			MAX LENGTH	MAX LENGTH
	(NPT)		NUMBER OF Cores	DIAMETER 'A'	MIN.	MAX.	MIN.	MAX.	"D'	'E'	°F
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)





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5



NOTES







NOTES






# Z SERIES – ALUMINUM CORD CONNECTORS



#### **Applications**

Use to secure and seal cords or cables entering enclosures or race-ways.

Z Series connectors are also suitable for use in hazardous locations per National Electrical Code (Articles 501-4(b), 502-4(a&b), 503-3(a&b)). Consult these articles for sealing requirements that may apply.

#### Materials/Finish

- Copper-free aluminum (less than 4/10 of 1%)
- Natural finish

#### **Features**

- Aluminum construction resists corrosion
- Neoprene grommet seals out oil and moisture
- Nylon retention ring ensures superior holding power
- Wide range of sizes and configurations

## Z SERIES – STRAIGHT STEEL CORD CONNECTORS



#### **Applications**

Z Series Steel Cord Connectors are used to secure and seal cords or cables entering enclosures or race-ways. Z Series connectors are also suitable for use in hazardous locations per National Electrical Code (Articles 501.10(B), 502.10(A)(B) and 505.15(C)). Consult these articles for sealing requirements that may apply.

#### Materials/Finish

- Steel/malleable iron
- Zinc electro-plated •
- Natural Finish

#### **Features**

- Neoprene grommet seals out oil and moisture
- Nylon retention ring incorporates a split hinge design to prevent friction and provide strain relief, also color-coded for sizing identification
- These heavy-duty connectors hold up to most manufacturing chemicals including, acid solutions, solvents and other corrosive materials
- Machined steel nut and body allows for tightening the compression nut and NPT hub without worrying about stripping the threads
- Wide range of sizes and configurations

# Z SERIES – CORROSION RESISTANT NYLON CORD CONNECTORS



#### **Applications**

Durable nylon construction makes these connectors perfectly suited to corrosive environments.

Typical applications for nylon cord connectors include food processing facilities, chemical and sewage treatment plants and off-shore and dockside installations.

#### Features

- Nylon retention ring for increased holding power
- Neoprene bushing seals against moisture
- Nylon connectors obtain approximately • the same cord retention values with hand tightening that can be produced only by wrench tightening of metal cord connectors

#### Material

Nylon



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