

Reliable Water Ingress Protection.



**Appleton™ and O-Z/Gedney™ Connectors
for Liquidtight Flexible Metal Conduit**
Breadth of Line Product Guide.

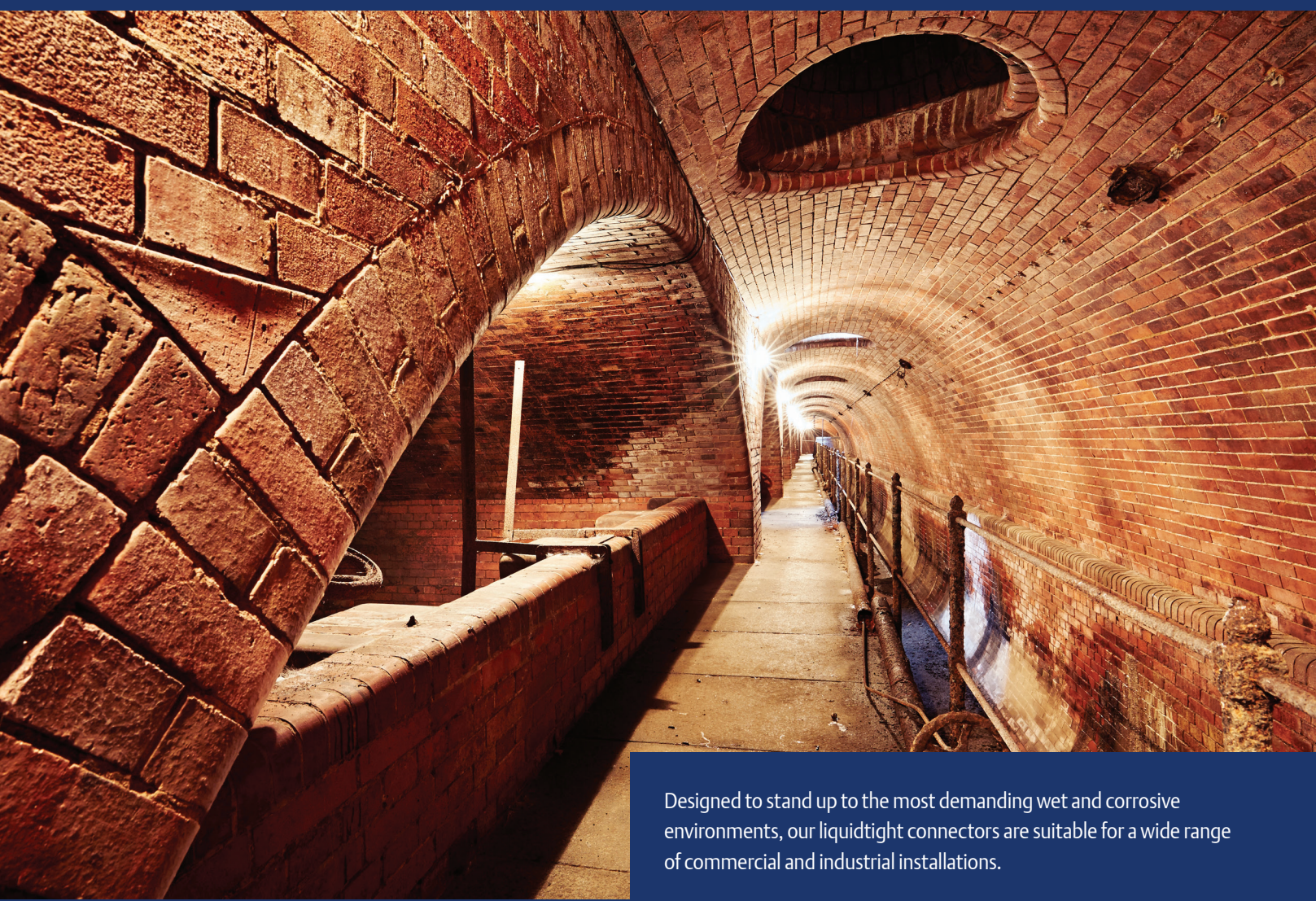


An Extensive Range Of Quality-Engineered Connectors For Wet And Adverse Environments



Connect with Appleton™ and O-Z/Gedney™ liquidtight conduit connectors by Emerson™, for so many reasons. We offer a complete range of liquidtight and vibration-proof connectors for wet, challenging locations, suitable for use in Class I, Division 2 and other hazardous locations as defined by the National Electric Code (NEC). With multiple sizes and options, they're ideally suited for OEM applications, including petroleum machinery, machine shop equipment, conveyors, packaging and more. Across the board, Emerson™ takes quality to the next level with superior materials, precise machining and user-friendly innovation. These durable connectors assemble quickly and easily to stay liquidtight for the long haul. For superior protection, quality and versatility, only our Appleton™ and O-Z/Gedney™ brands offer all the right connections.

Ask your sales representative to learn more about the full product offering of Appleton™ and O-Z/Gedney™ liquidtight conduit connectors from Emerson™ — performance you trust.



Designed to stand up to the most demanding wet and corrosive environments, our liquidtight connectors are suitable for a wide range of commercial and industrial installations.

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Liquidtight ST™ Series Connectors

Emerson™ offers a full range of liquidtight connectors suitable for NEC Class I, Division 2 locations. They are ideally suited for OEM equipment, as well as harsh and corrosive environments. With only three main parts – the body, long-throat crimpable ferrule and compression nut – the Appleton™ ST Series connectors are, at minimum, 25% quicker to install than the competitor's. The breadth of the Appleton™ ST Liquidtight product line offers an ergonomic design in a vast range of trade sizes, configurations, and male and female versions in steel, malleable iron and aluminum. For all these reasons, the Appleton™ ST Series of liquidtight connectors are the top choice whenever a secure, safe connection is paramount.



Straight Configuration



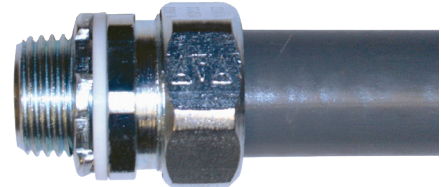
45° Configuration



90° Configuration

Fewer parts (3) speed assembly

Crimpable ferrule



Connector body and compression nut assure full ferrule-to-body contact for positive sealing and grounding

Features

- Suitable for wet locations
- Seals out water, oil, dirt, dust and fumes
- Three-piece design (body, nut and ferrule) for 25% faster installation vs. competitive products
- Now includes KO sealing ring with locknut
- Bar stock steel or cast malleable iron – built-in durability
- Compact design – clean OEM look
- Distinct ferrule threads – pull-out is four times greater than UL requirements
- Crimpable ferrule – secure mechanical and liquidtight connection with positive fitting-to-conduit grounding

Available Options

- ST: Uninsulated throat
- STB: Insulated throat
- ST-L: External grounding lugs, uninsulated throat
- STB-L: External grounding lugs and insulated throat
- ST-AL: Aluminum, uninsulated throat
- ST-F: Female threaded transition fitting
- ST-FSR: Female threaded transition fitting and wire mesh strain relief
- STB-SR: Wire mesh strain relief and insulated throat
- STN: Space-saving hex hub and insulated throat
- STN-SR: Space-saving hex hub with wire mesh strain relief and insulated throat
- STNM: Space-saving hex hub for Type A conduit and insulated throat
- STNM-SR: Space-saving hex hub for Type A conduit with wire mesh strain relief and insulated throat

Ordinary Locations Certifications

- UL Listed: E11853
- CSA Certified: 065178

Applicable Third Party Standards

- UL Standard: 514B
- CSA Standard: C22.2 No. 18.3
- NEMA Standard: FB-1

Suitable for Use in the Following NEC Hazardous Locations

- Class I, Division 2 per NEC 501.10(B)(2)
- Class I, Zone 2 per NEC 505.15(C)(2)
- Class II, Division 1 per NEC 502.10(A)(2)
- Class II, Division 2 per NEC 502.10(B)(2)
- Class III, Division 1 per NEC 503.10(A)(3)
- Class III, Division 2 per NEC 503.10(B)

Liquidtight ST™ Series Connectors *(continued)*

Available Materials

Style and Size	Connector Component	Material
Straight (3/8" thru 1")	Body and Compression Nut	Steel
Straight (1-1/4" thru 4")	Body and Compression Nut	Malleable Iron
45° and 90° (3/8" thru 4")	Body	Malleable Iron
45° and 90° (3/8" thru 1")	Compression Nut	Steel
45° and 90° (1-1/4" thru 4")	Compression Nut	Malleable Iron
Straight (3/8" thru 4")	Body and Compression Nut	Aluminum
90° (3/8" thru 2")	Body and Compression Nut	Aluminum
Straight, 45° and 90° (3-8" thru 4")	KO Sealing Ring	Polypropylene
Straight, 45° and 90° (3/8" thru 1")	Ferrule	Steel
Straight, 45° and 90° (1-1/4" thru 4")	Ferrule	Aluminum
Straight, 45° and 90° (3/8" thru 4")	Locknut	Aluminum
Straight, 45° and 90° (3-8" thru 3")	Insulated Throat	Zytel
Straight, 45° and 90° (3-1/2" thru 4")	Insulated Throat	Polypropylene

Breadth/Depth — Liquidtight ST Connectors

Description	Available Trade Sizes	Series
Uninsulated and insulated throat (straight, 45° and 90°)	3/8" thru 4"	ST- and STB
Uninsulated and insulated throat with external grounding lugs (straight, 45° and 90°)	3/8" thru 4"	ST-L and STB-L
Aluminum, uninsulated throat (straight)	3/8" thru 4"	ST-AL
Aluminum, uninsulated throat (90°)	3/8" thru 2"	
Female threaded transition fitting for Rigid and IMC conduit (straight)	3/8" thru 4"	ST-F
Female threaded transition fitting and wire mesh strain relief (straight)	3/8" thru 3"	ST-FSR
Wire mesh strain relief and insulated throat (straight, 45° and 90°)	3/8" thru 3"	STB-SR
Space-saving hex hub and insulated throat (straight)	3/8" thru 4"	STN
Space-saving hex hub and insulated throat (90°)	3/8" thru 1"	
Space-saving hex hub with wire mesh strain relief and insulated throat (straight)	3/8" thru 3"	STN-SR
Space-saving hex hub with wire mesh strain relief and insulated throat (90°)	3/8" thru 1"	
Space-saving hex hub for Type A LFNC and insulated throat (straight)	3/8" thru 2"	STNM
Space-saving hex hub for Type A LFNC and insulated throat (90°)	3/8" thru 2"	
Space-saving hex hub for Type A LFNC wire mesh strain relief	3/8" thru 2"	STNM-SR



Compression Nut



Ferrule



Body



KO Sealing Ring



Locknut

Liquidtight 4Q Series Connectors

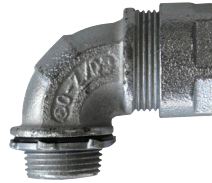
The O-Z/Gedney™ 4Q liquidtight connectors secure, ground and seal liquidtight flexible metal conduit to boxes and enclosures. With a broad variety of configurations, sizes and finishes, they are the electrical contractor's choice for demanding commercial, industrial and infrastructure locations. Features such as the reusable ferrules with inspection windows eliminate guesswork, so there's never a concern about incorrect installation.



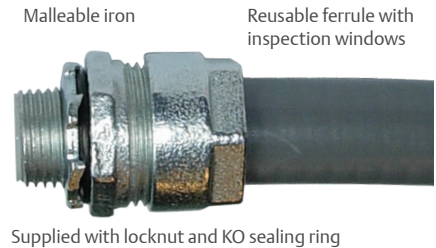
Straight Configuration



45° Configuration



90° Configuration



Malleable iron

Reusable ferrule with inspection windows

Supplied with locknut and KO sealing ring

Features

- Suitable for wet locations
- Liquidtight, rain tight, oil tight
- NEMA 4 when installed in NPT threaded entrance or hub
- High-strength malleable iron in trade sizes up to 6" – withstands the extremes of commercial, industrial and infrastructure applications
- Reusable ferrule with inspection windows provide visual indication of ferrule-to-conduit engagement
- Compact, slim diameter with small turning radius – close-proximity installations
- Sealing ring provides liquidtight seal between conduit and connector
- Ferrule assures positive ground between conduit and connector
- Supplied with locknut and KO sealing ring for ingress protection at knockout entrance

Available Options

- 4Q: Uninsulated throat
- 4Q-T: Insulated throat
- 4Q-TG: Hot-dip/mechanically galvanized with insulated throat
- 4Q-WM: Insulated throat and wire mesh strain relief
- 4Q-L: External grounding lugs, uninsulated throat
- 4Q-LT: External grounding lugs and insulated throat
- 4Q-FM: Female threaded transition fitting for RMC and IMC conduit
- 4Q-FML: Female threaded transition fitting for RMC and IMC with external grounding lugs

Ordinary Locations Certifications

- UL Listed: E11853
- CSA Certified: 009795

Applicable Third Party Standards

- ANSI/UL Standard: 514B
- CSA Standard: C22.2 No. 18
- NEMA Standard: FB-1
- FED. SPEC: W-F-406E

Suitable for Use in the Following NEC Hazardous Locations

- Class I, Division 2 per NEC 501.10(B)(2)
- Class I, Zone 2 per NEC 505.15(C)(2)
- Class II, Division 1 per NEC 502.10(A)(2)
- Class II, Division 2 per NEC 502.10(B)(2)
- Class III, Division 1 per NEC 503.10(A)(3)
- Class III, Division 2 per NEC 503.10(B)

Available Materials

Style and Size	Connector Component	Material
Straight (3/8" thru 6")	Body and Compression Nut	Malleable Iron
Straight (3/8" thru 6")	Ferrule	Steel, Zinc Electroplated
Straight, 45° and 90° (3/8" thru 2")	Sealing Ring	Nylon
Straight (2-1/4" thru 6")	Sealing Ring	PVC
Straight, 45° and 90° (3/8" thru 4")	Locknut	Steel
Straight (5" thru 6")	Locknut	Malleable Iron
Straight (3/8" thru 6")	KO Sealing Ring	Nitrile Rubber
45° and 90° (3/8" thru 5")	Body and Compression Nut	Malleable Iron
45° and 90° (3/8" thru 5")	Ferrule	Steel, Zinc Electroplated
45° and 90° (2-1/2" thru 5")	Sealing Ring	PVC
45° and 90° (3/8" thru 5")	Locknut	Malleable Iron
45° and 90° (3/8" thru 5")	KO Sealing Ring	Nitrile Rubber
Straight, 45° and 90° (3/8" thru 6")	Insulated Throat	Nylon

Liquidtight 4Q Series Connectors *(continued)*

Breadth/Depth — Liquidtight 4Q Connectors

Description	Available Trade Sizes	Series
Uninsulated and insulated (straight)	3/8" thru 6"	4Q and 4Q-T
Uninsulated and insulated (45° and 90°)	3/8" thru 5"	
Hot-dip/mechanically galvanized and insulated throat (straight)	3/8" thru 6"	4Q-TG
Hot-dip/mechanically galvanized and insulated throat (45° and 90°)	3/8" thru 5"	
Wire mesh strain relief and insulated throat (straight)	3/8" thru 4"	4Q-WM
Uninsulated and insulated with external grounding lugs (straight)	3/8" thru 6"	4Q-L and 4Q-LT
Uninsulated and insulated with external grounding lugs (45° and 90°)	3/8" thru 5"	
Female threaded transition fitting for Rigid and IMC conduit (Straight)	3/8" thru 5"	4Q-FM
Female threaded transition fitting and external grounding lugs (straight)	3/8" thru 5"	4Q-FML



Compression Nut



Sealing Ring



Inspection Ferrule



Body



KO Sealing Ring



Locknut

Liquidtight 4QSS Series Connectors

Appleton™ and O-Z/Gedney™ 4QSS stainless steel fittings offer excellent corrosion resistance in environments prone to corrosion by using a high grade 316L stainless steel material. These durable fittings are used to secure, seal and ground liquidtight flexible metal conduit to boxes and enclosures where conditions of installation, operation or maintenance require flexibility and protection from liquids, vapors or solids. Applications include machine tool building, motor and transformer terminations, robotics assembly, air conditioning equipment installation, marine/offshore environments and wash-down areas.



Straight Configuration

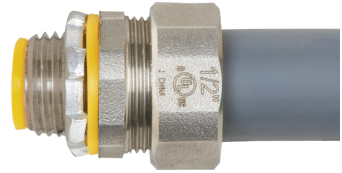


45° Configuration



90° Configuration

316L grade stainless steel body and compression nut



Supplied with locknut and KO sealing ring

Features

- Superior Corrosion Resistance
- Suitable for wet locations
- Liquidtight/Raintight/Oiltight
- Long ferrule prevents pullout and tight bend conduit “pop out”
- Tapered threaded male NPT hub
- Compact, slim diameter with small turning radius — close-proximity installations
- Supplied with locknut and KO sealing ring for ingress protection at knockout entrance
- Reusable Ferrule — easy to install and re-install

Ordinary Locations Certifications

- cULus Listed: E11853

Applicable Third Party Standards

- UL Standard: 514B
- CSA Standard: C22.2 No. 18.3
- NEMA Standard: FB-1

Suitable for Use in the Following NEC Hazardous Locations

- Class I, Division 2 per NEC 501.10(B)(2)
- Class I, Zone 2 per NEC 505.15(C)(2)
- Class II, Division 1 per NEC 502.10(A)(2)
- Class II, Division 2 per NEC 502.10(B)(2)
- Class III, Division 1 per NEC 503.10(A)(3)
- Class III, Division 2 per NEC 503.10(B)

Available Materials

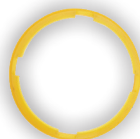
Style and Size	Connector Component	Material
Straight, 45° and 90° (3/8” thru 2”)	Body and Compression Nut	316L Stainless Steel
Straight, 45° and 90° (3/8” thru 2”)	Ferrule and Separated Locknut - Steel, Zinc Plated	Steel, Nickel Plated
Straight, 45° and 90° (3/8” thru 2”)	Insulated Throat	Nylon
Straight, 45° and 90° (3/8” thru 2”)	Sealing Ring and KO Sealing Ring	Nylon

Breadth/Depth — Liquidtight 4QSS Connectors

Description	Available Trade Sizes	Series
Insulated throat (straight, 45° and 90°)	3/8” thru 2”	4QSS-T



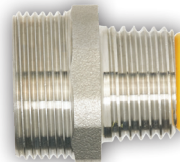
Compression Nut



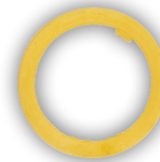
Sealing Ring



Ferrule



Body



KO Sealing Ring



Locknut

Liquidtight 4QS Series Connectors

Appleton™ and O-Z/Gedney™ ETP™ 4QS steel and malleable iron fittings feature a compact design and are ideal for OEM applications that require flexibility in tight spaces when installing multiple liquidtight fittings to boxes and enclosures. These corrosion resistant fittings provide protection from liquids, vapors or solids for applications like: machine tool building, motor and transformer terminations, robotics assembly and air conditioning equipment installation.



Straight Configuration

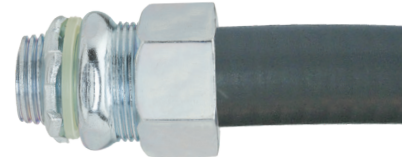


45° Configuration



90° Configuration

Compact, slim diameter provides flexibility in tight spaces



Supplied with locknut and KO sealing ring

Long Ferrule prevents pullout

Features

- Suitable for wet locations
- Liquidtight/Raintight/Oiltight
- Tapered threaded male NPT hub
- Compact, slim diameter with small turning radius — close-proximity installations
- Supplied with locknut and KO sealing ring for ingress protection at knockout entrance
- Long ferrule prevents pullout and tight bend conduit “pop-out”
- Reusable Ferrule — easy to install and re-install

Ordinary Locations Certifications

- UL Listed: E11853
- CSA Certified: 009795

Applicable Third Party Standards

- UL Standard: 514B
- CSA Standard: C22.2 No. 18.3
- NEMA Standard: FB-1

Suitable for Use in the Following NEC Hazardous Locations

- Class I, Division 2 per NEC 501.10(B)(2)
- Class I, Zone 2 per NEC 505.15(C)(2)
- Class II, Division 1 per NEC 502.10(A)(2)
- Class II, Division 2 per NEC 502.10(B)(2)
- Class III, Division 1 per NEC 503.10(A)(3)
- Class III, Division 2 per NEC 503.10(B)

Available Materials

Style and Size	Connector Component	Material
Straight (3/8" thru 1")	Body and Compression Nut	Steel, Zinc Plated
Straight (1-1/4" thru 4")	Body and Compression Nut	Malleable Iron
45° and 90° (3/8" thru 4")	Body	Malleable Iron
45° and 90° (3/8" thru 1")	Compression Nut	Steel, Zinc Plated
45° and 90° (1-1/4" thru 4")	Compression Nut	Malleable Iron
Straight, 45° and 90° (3/8" thru 4")	Ferrule and Locknut	Steel, Zinc Plated
Straight, 45° and 90° (3/8" thru 4")	Sealing Ring, KO Sealing Ring and Insulated Throat	Nylon

Breadth/Depth — Liquidtight 4QS Connectors

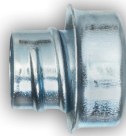
Description	Available Trade Sizes	Series
Uninsulated throat (straight, 45° and 90°)	3/8" thru 4"	4QS
Insulated throat (straight, 45° and 90°)	3/8" thru 4"	4QS-T



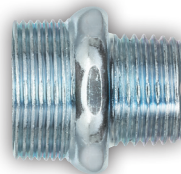
Compression Nut



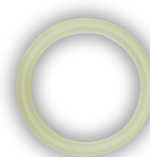
Sealing Ring



Ferrule



Body



KO Sealing Ring



Locknut

Liquidtight LM Series Connectors

Appleton™ and O-Z/Gedney™ NEER™ LM Series is produced in Zamak zinc alloy and is used with liquidtight flexible metal conduit (LFMC), or Type B liquidtight flexible non-metallic conduit (LFNC) in wet locations.

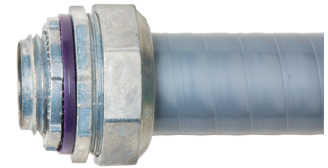


Straight Configuration



90° Configuration

Zinc diecast body, locknut, ferrule and compression nut



Supplied with locknut and KO sealing ring

Features

- Suitable for wet locations
- Supplied with locknut and KO sealing ring for ingress protection at knockout entrance
- Reusable ferrule — easy to install and re-install
- Liquidtight/Raintight/Oiltight

Ordinary Locations Certifications

- UL Listed: E302405
- CSA Certified: 208044, LR14489, LR39354

Applicable Third Party Standards

- UL Standard: 514B
- CSA Standard: C22.2 No. 18.3
- NEMA Standard: FB-1

Suitable for Use in the Following NEC Hazardous Locations

- Class I, Division 2 per NEC 501.10 (B)(2)
- Class I, Zone 2 per NEC 505.15 (C)(2)
- Class II, Division 2 per NEC 502.10 (A)(2)
- Class II, Division 2 per NEC 502.10 (B)(2)
- Class III, Division 1 per NEC 503.10 (A)(3)
- Class III, Division 2 per NEC 503.10 (B)

Available Materials

Style and Size	Connector Component	Material
Straight and 90° (3-8" thru 4")	Body, Ferrule, Locknut and Compression Nut	Zinc Die Cast
Straight and 90° (3-8" thru 4")	Sealing Ring and KO Sealing Ring	Polyethylene
Straight and 90° (3-8" thru 4")	Insulated Throat	Polyethylene

Breadth/Depth — Liquidtight LM Connectors

Description	Available Trade Sizes	Series
Insulated throat and uninsulated throat (straight)	3/8" thru 4"	LMM
Insulated throat and uninsulated throat (90°)	3/8" thru 4"	LML



Compression Nut



Sealing Ring



Ferrule



Body



KO Sealing Ring



Locknut

Liquidtight NM Series Connectors

Appleton™ and O-Z/Gedney™ NEER™ NM Series is made up of highly corrosion-resistant nylon providing resistance from salt water, weak acids, gasoline, alcohol, oil, grease and common solvents. The NM Series is used with Type B liquidtight flexible non-metallic conduit (LFNC).

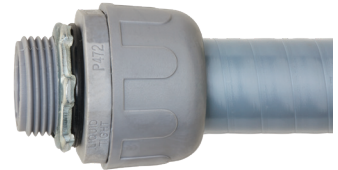


Straight Configuration



90° Configuration

One-piece design for easier and more efficient installations



Supplied with locknut and KO sealing ring

Corrosion-resistant nylon body

Features

- Suitable for wet locations
- No disassembly required; push the Ferrule into the conduit, then tighten the domed sealing nut
- Supplied with locknut and KO sealing ring for ingress protection at knockout entrance
- Connectors are reusable
- Liquidtight/Raintight/Oiltight

Ordinary Locations Certifications

- UL Listed: E302405

Applicable Third Party Standards

- UL Standard: 514B
- NEMA Standard: FB-1

Available Materials

Style and Size	Connector Component	Material
Straight and 90° (3-8" thru 1")	Body and Compression Nut	Nylon
Straight and 90° (3-8" thru 1")	KO Sealing Ring	Neoprene
Straight and 90° (3-8" thru 1")	Locknut	Steel

Breadth/Depth — Liquidtight NM Connectors

Description	Available Trade Sizes	Series
Uninsulated throat (straight)	3/8" thru 4"	NMM
Uninsulated throat (90°)	3/8" thru 4"	NML



Compression Nut



Body



KO Sealing Ring



Locknut

Providing protection for your liquidtight flexible metal conduit system from water and corrosive elements for operational certainty.



Appleton™ and O-Z/Gedney™ are the cornerstone brands of Emerson's Electrical Apparatus and Lighting business; trusted worldwide to make electrical installations safer, more productive and more reliable.

United States (Headquarters)

Appleton™ Grp LLC
9377 W. Higgins Road
Rosemont, IL 60018
United States
T +1 800 621 1506

Europe

ATX SAS
Espace Industriel Nord
35, rue André Durouchez,
CS 98017
80084 Amiens Cedex 2, France
T +33 3 22 54 13 90

Canada

EGS Electrical Group Canada Ltd.
99 Union Street
Elmira ON, N3B 3L7
Canada
T +1 888 765 2226

Asia Pacific

EGS Private Ltd.
Block 4008, Ang Mo Kio Ave 10,
#04-16 TechPlace 1,
Singapore 569625
T +65 6556 1100

Latin America

EGS Comercializadora Mexico S
de RL de CV
Calle 10 N°145 Piso 3
Col. San Pedro de los Pinos
Del. Álvaro Obregon
Ciudad de México. 01180
T +52 55 5809 5049

Australia Sales Office

Bayswater, Victoria
T +61 3 9721 0348

China Sales Office

Shanghai
T +86 21 3338 7000

Middle East Sales Office

Dammam, Saudi Arabia
T +966 13 510 3702

Chile Sales Office

Las Condes
T +56 2928 4819

India Sales Office

Chennai
T +91 44 3919 7300

South Korea Sales Office

Seoul
T +82 2 3483 1555

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