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## Liquid Tight Metallic Flexible Conduit

The PG Brand Liquid Tight Metallic Flexible Conduit is designed and manufactured in compliance with international standards, ensuring durability, safety, and suitability for demanding applications.

It is UL Listed and CSA certified for direct burial in earth or in poured concrete, offering excellent performance even under harsh environmental conditions.



### Standards & Compliance

- ANSI/UL 360
- CSA 22.2 No. 56-17
- Tested as per ASTM D-471 and IEC standards
- Listed and marked for direct burial in earth or in poured concrete
- Meets NEC Article 250 (Grounding & Bonding requirements)

### Key Features

- Wide temperature range: up to +150°C
- Fire Retardant: Self-extinguishing
- UV Resistance: Yes
- Suitable for Hazardous (Classified) Locations:
  - NEC Article 501.10 (B) (2) & 501.30 (B) Class I Div. 2
  - NEC Article 502.10 (A) (2) & 502.30 (B) Class II Div. 1; 502.10 (B) (2) Class II Div. 2
  - NEC Article 503.10 (A) (2) & 503.30 (B) Class III Div. 1; 503.10 (A) (2) Class III Div. 2

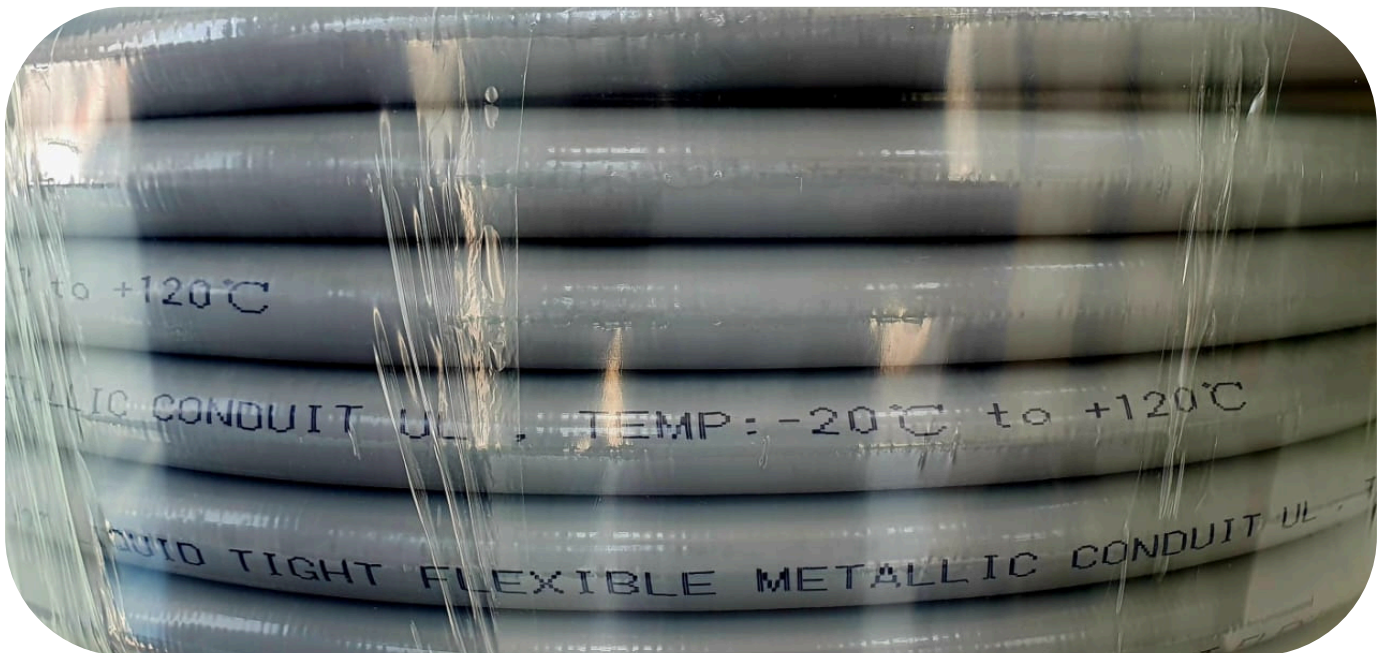


## Chemical Composition & Test Report Reference

Based on the Material Test Certificate (MTC) reference (Report No. – THZJ24062559344CN, Dated 25-03-2025), the Liquid Tight Metallic Flexible Conduit has been tested and approved for compliance with international standards.

### Chemical Composition of Base Metal (%):

- C: 0.25
- Si: 0.1
- Mn: 0.5
- S: 0.025
- P: 0.035



### Physical Properties:

- Yield Strength: 348–383 MPa
- Tensile Strength: 348–358 MPa
- Elongation: 15–16 %
- Surface Treatment: Passivation

### Inspection Results:

- Appearance: Good, no visible cracks or defects
- Heat Resistance Test: Passed – No deformation or discoloration after 168 hours at 120°C
- Fire Retardant Test: Passed – Total afterflame time of 18s, self-extinguishing with no ignition of cotton pad

The above results confirm that the conduit complies with ASTM D-471, CSA, and IEC requirements.

## Applications & Recommendations

The PG Brand Liquid Tight Metallic Flexible Conduit is widely recommended for environments where mechanical protection, chemical resistance, and flame retardancy are critical requirements.



### Recommended Applications:

- Refineries and Petrochemical Plants – for safe electrical wiring in hazardous areas
- Offshore Facilities – suitable for marine and offshore installations exposed to saline conditions
- Chemical Industries – resistant to chemical vapours and liquid ingress
- Infrastructure Projects – bridges, tunnels, and subways requiring robust protection
- Power Plants and Utilities – ensuring secure grounding and wiring protection

### Supporting Standards and Codes:

- NEC Article 250 – Grounding and Bonding
- NEC Articles 501, 502, 503 – Hazardous Location Requirements
- IEC and CSA performance standards for flexible metallic conduit
- ASTM D-471 – Oil and fluid resistance testing

With its proven compliance and durability, the PG Liquid Tight Metallic Flexible Conduit provides a reliable and long-term solution for critical electrical installations in highly demanding and hazardous environments.

Specification

Nominal Conduit Size	Nominal Conduit Size	Part Number	ID (mm)	OD w/Jacket (mm)	Bending Radius (mm)	Package/ Roll (ft/m)	Measurement (LxWxH mm)	Certificate
12	3:8		12.29~12.80	17.50~18.00	60.8	100 / 30.5	440*440*140	UL LISTED
16	1:2	1-2-LTMF120	15.80~16.31	20.80~21.30	92.55	100 / 30.5	440*440*160	UL LISTED
21	3:4	3-4-LTMF120	20.83~21.34	25.20~26.70	117.95	100 / 30.5	500*500*180	UL LISTED
27	1	1-LTMF120	26.44~27.08	32.80~33.40	175.1	100 / 30.5	600*600*300	UL LISTED
35	1-1:4	1-14-LTMF120	35.05~35.81	41.40~42.20	213.2	50 / 15.3	750*750*130	UL LISTED
41	1-1:2	1-12-LTMF120	40.01~40.64	47.40~48.30	238.6	50 / 15.3	750*750*250	UL LISTED
53	2	2-LTMF120	51.31~51.94	59.40~60.30	292.6	25 / 7.6	900*900*120	UL LISTED
63	2-1:2	2-12-LTMF120	62.99~63.63	72.10~73.00	381.3	25 / 7.6	1000*1000*150	UL LISTED
78	3	3-LTMF120	77.98~78.74	87.90~88.90	454.5	25 / 7.6	1100*1100*180	UL LISTED
91	3-1:2	3-12-LTMF120	88.90~89.92	100.6~101.6	518	25 / 7.6	1125*1125*230	UL LISTED
103	4	4-LTMF120	101.60~102.62	113.30~114.30	619.6	25 / 7.6	1125*1125*230	UL LISTED





## Get In Touch

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