
 TECHNICAL DATA SHEET

Type CMSU - Steel, UL Listed

Flexible metal conduit

Steel City® Conduit Systems



Features & Benefits:

- Meets requirements of UL 1 for Flexible Metal Conduits (1/2" to 3" trade sizes)
- Full compliance to IEC/EN 61386-1 requirements, CE Certified
- Trade sizes from 3/8" to 4" (12mm to 103mm)
- Suitable for use with T&B Fittings® and Steel City® fittings, listed for
 - Ser. XC Squeeze Type Connectors
 - Ser. XC Clamp Type Connectors
 - Ser. 300 Tite-Bite Connectors
 - Ser. 200 Squeeze Connectors
- Suitable for use with Iberville fittings, listed for use with flexible metal conduits
 - Ser. CI21 Clamp Connectors
 - Ser. CI22 Clamp Connectors
 - Ser. CI40 Clamp Connectors

Applications:

- The CMSU conduit is intended for use as a metal raceway for wires and cable in accordance with National Electrical Code® (NEC®), Article 348
- Permitted to be used in exposed and concealed locations (Section 348.10)
- Grounding conductor requirement for flexible installations (Section 348.60)
- Suitable as an equipment grounding conductor (Section 250.118)
- Raceway connection to motors (Section 430.223)
- Refer to CEC Rule 12-1000 for the proper use of CMSU flexible metal conduits.

Construction / Material / Finish:

- High strength hot dipped galvanised steel core
- Helically wound, formed strip
- Color: Metallic

UL Listed, galvanized steel non-jacketed flexible metal conduits, also known as “Reduced Wall” or “Greenfield”, are used in many universal wiring applications.

Certifications / Standards:


Environment ratings:
Working Temperature:

- IEC/CE: Gen: -45 to +400°C (-49 to +752°F)

Conforms to:

- UL 1, Flexible Metal Conduit (FMC)
 - UL File: E484989 (Excludes 4 inch size)
- CSA C22.2 No. 56, Flexible Metal Conduits (FMC)
 - CSA File: LR-72635 (3/8 inch size only)
- IEC/EN 61386-1, -23, Conduit Systems for Cable Management
 - EU DoC: EC-012-17-173
- CE (Conformité Européene, European Conformity)
- RoHS (Restriction of Hazardous Substances Directive)

Standards requirements:
Meets all UL 1 and CSA C22.2, No. 56-13 standards requirements including:

- ID and OD dimensions, material thickness, tension loading, flexibility, impact, markings, etc.

Meets all IEC/EN 61386-1, -23 standard requirements including:

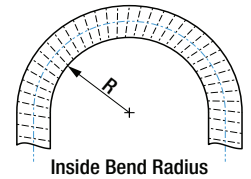
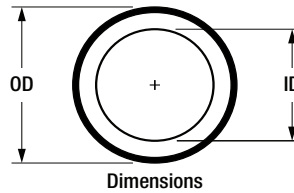
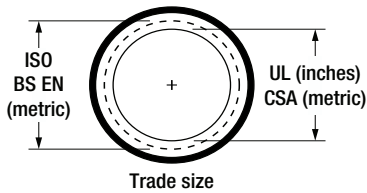
- Compression strength - Code 4 Heavy; 1250 N/50mm
- Impact strength - Code 5 Very Heavy; 20 Joules
- Tensile strength - Code 3 Light; 500 N/2 min.

Ingress protection:
IEC system ingress rating:

- IP Ingress Protection per IEC/EN 60529 requirements
- IEC Ingress Ratings: IP40

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Product selection and dimensions

Product selection														
Trade size			Carton						Coil Length					
UL	CSA	ISO BS EN	Part No./GID			Standard reel			Bulk reel			Weight		
Inches	mm	mm	Part No./GID	Feet	Meter	Part No./GID	Feet	Meter	Part No./GID	Feet	Meter	lbs/ft	kg/m	
3/8	12	16	CMSUS01M-C	100	30	-	-	-	CMSUS01M-L	1,000	300	0.18	0.27	
			7TAA012CC0R0000						7TAA012CC0R0010					
1/2	16	20	CMSUS02M-C	100	30	-	-	-	CMSUS02M-L	1,000	300	0.28	0.42	
			7TAA012CC0R0001						7TAA012CC0R0011					
3/4	21	25	CMSUS03M-C	100	30	CMSUS03M-K	500	150	-	-	-	0.33	0.49	
			7TAA012CC0R0002			7TAA012CC0R0012								
1	27	32	CMSUS04M-B	50	15	CMSUS04M-J	400	120	-	-	-	0.52	0.77	
			7TAA012CC0R0003			7TAA012CC0R0013								
1 1/4	35	40	CMSUS05M-B	50	15	CMSUS05M-J	400	120	-	-	-	0.65	0.97	
			7TAA012CC0R0004			7TAA012CC0R0014								
1 1/2	41	50	CMSUS06M-A	25	8	CMSUS06M-H	300	90	-	-	-	0.80	1.19	
			7TAA012CC0R0005			7TAA012CC0R0015								
2	53	70	CMSUS07M-A	25	8	CMSUS07M-D	150	45	-	-	-	0.99	1.47	
			7TAA012CC0R0006			7TAA012CC0R0016								
2 1/2	63	70	CMSUS08M-A	25	8	-	-	-	-	-	-	1.66	2.47	
			7TAA012CC0R0007			-								
3	78	80	CMSUS09M-A	25	8	-	-	-	-	-	-	1.90	2.83	
			7TAA012CC0R0008			-								
4	103	100	CMSUS11M-A	25	8	-	-	-	-	-	-	2.00	2.98	
			7TAA012CC0R0009			-								



Dimensions

Part number	Trade Size			Minimum inside bend radius				Inches				Millimeters			
	UL	CSA	ISO BS EN	Static		Dynamic		Inside (ID)		Outside (OD)		Inside (ID)		Outside (OD)	
	Inches	mm	mm	Inches	mm	Inches	mm	Min	Max	Min	Max	Min	Max	Min	Max
CMSUS01M-*	3/8	12	16	2.0	51	-	-	0.375	0.393	0.560	0.610	9.5	10.0	14.2	15.5
CMSUS02M-*	1/2	16	20	3.0	76	-	-	0.625	0.645	0.860	0.920	15.9	16.4	21.8	23.4
CMSUS03M-*	3/4	21	25	4.2	107	-	-	0.081	0.835	1.045	1.105	20.6	21.2	26.5	28.1
CMSUS04M-*	1	27	32	5.5	140	-	-	1.000	1.040	1.300	1.380	25.4	26.4	33.0	35.1
CMSUS05M-*	1 1/4	35	40	7.0	178	-	-	1.250	1.300	1.550	1.630	31.8	33.0	39.4	41.4
CMSUS06M-*	1 1/2	41	50	4.5	114	-	-	1.500	1.575	1.850	1.950	38.1	40.0	47.0	49.5
CMSUS07M-*	2	53	63	6.0	152	-	-	2.000	2.080	2.350	2.454	50.8	52.8	59.7	62.3
CMSUS08M-*	2 1/2	63	70	8.0	203	-	-	2.500	2.700	2.860	3.060	63.5	68.2	72.6	77.7
CMSUS09M-*	3	78	80	10.0	254	-	-	3.000	3.200	3.360	3.560	76.2	81.3	85.3	90.4
CMSUS11M-*	4	103	100	12.0	305	-	-	4.000	4.200	4.360	4.560	101.6	106.7	110.7	115.8

Note: Products must be installed in accordance with applicable national and local electrical codes

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