

Steel Core

Type CEA – Non-Halogen, Low Smoke, Flame Retardant



Trade Size (in.)	Cat. No.	Carton Content* (m)	Cat. No.	Reel Content* (m)	Minimum Jacket Thickness	Inside Bend Radius		Weight kg/30m
						in.	(mm)	
3/8	CEA038-30	30	CEA038-150	150	300	1.5	(38.1)	9
1/2	CEA050-30	30	CEA050-150	150	300	2.0	(50.8)	11
3/4	CEA075-30	30	CEA075-150	150	300	2.5	(63.5)	15
1	CEA100-30	30	CEA100-120	120	-	3.0	(76.2)	24
1-1/4	CEA125-15	15	CEA125-60	60	-	3.5	(88.9)	31
1-1/2	CEA150-15	15	CEA150-45	45	-	4.5	(114.3)	40
2	CEA200-15	15	CEA200-30	30	-	5.5	(139.7)	53
2-1/2	CEA250-8	8	-	-	-	8.0	(203.2)	76
3	CEA300-8	8	-	-	-	10.0	(254.0)	118
3-1/2	CEA350-8	8	-	-	-	11.0	(279.4)	132
4	CEA400-8	8	-	-	-	12.0	(304.8)	156
5	CEA500-8**	8	-	-	2.5	17.5	(444.5)	212
6	CEA600-8**	8	-	-	2.5	22.5	(635.0)	259

See Chart on p. G28 for dimensions and tolerances

* See p. G27 for label and packaging detail

**Available on request

Type ACEA also available (liquidtight flexible aluminum conduit)

Aluminum core weighs approximately one third less than steel core

Type CEA

This liquidtight flexible steel conduit is designed for applications where safety concerns exist regarding a material's reaction in a fire situation.

Construction

The flexible inner core of this product is made from a galvanized steel strip. As in type LT, this core contains string packing between the helical convolutions in trade sizes 3/8 in. through 2 in. The specially formulated thermoplastic polyurethane jacket has excellent flame retardant characteristics as well as low smoke and toxicity generation characteristics. Acidic gases such as hydrogen chloride, hydrogen fluoride and hydrogen bromide are virtually eliminated as products of combustion.

Applications

This product is ideally suited for installation in confined or enclosed areas where construction materials must generate very little smoke, and have a low flame spread as well as low toxic gas emissions in the event of fire. Such applications include mass transit vehicles where CEA is extensively used for wiring harnesses within and under passenger rail cars. Other applications include use in underground subway structures and tunnels.

Working Temperatures

-40°C to 80°C

Standard Colours

Grey and black. Other colours available upon request. Part numbers listed designate grey jacket.

Type CEA Combustion & Flammability Properties

Combustion & Flammability Properties**	Test	Value
-Vertical Burn (Material)	UL94	V-0 Rating No Flaming Drips
-Vertical Burn (Conduit)	UL360	Pass No Flaming Drips
-Oxygen Index %	D2863	28.5
-Flame Spread Index	ASTM E162	20; No Flaming Drips
-Flame Propagation	ASTM C542 (NFPA-130)	Pass No Flaming Drips
-Smoke Generation (Flaming)	ASTM E662 (NFPA 258)	Ds 50 @ 1.5 min Ds 102 @ 4.0 min
-Smoke Generation (Non-Flaming)	ASTM E662 (NFPA 258)	Ds 5 @ 1.5 min Ds 26 @ 4.0 min
-Toxic Gas Generation	BOMBARDIER SMP 800-C	Pass
-Toxicity Index	NES 713	3.9

**Test data is based on controlled laboratory conditions and does not necessarily reflect performance in actual fire conditions
Additional product information available upon request