

# TYPE CEA



**This non-UL 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 through 2 inch. The specially formulated thermoplastic polyurethane jacket has excellent flame retardation and low smoke and toxicity generation characteristics. Acidic gases such as hydrogen chloride, hydrogen fluoride and hydrogen bromide are virtually eliminated as products of combustion.

### APPLICATION:

This product is ideally suited for installation in confined or enclosed areas where construction materials must have limited smoke, low flame spread and 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.

RoHS and WEEE Compliant.

### STANDARD COLORS:

Gray and Black. Other colors are available upon request. Part numbers above designate gray jacket.

### WORKING TEMPERATURES:

-40°C to 80°C

**METAL USED:** Steel

**PLASTIC USED:** PU

See the Chemical Resistance Guide on our website.



Trade Size (In.)	Type	Minimum Jacket Thickness	Inside Bend Radius (In.)	Weight (Lbs.)/100 Ft.	Carton Footage		Reel Footage	
					Length	Part # Gray / Black	Length	Part # Gray / Black
3/8	CEA-10	0.030	1.5	20	100	888016/88801	1000	-/-
1/2	CEA-11	0.030	2.0	24	100	888116/88811	1000	888146/88814
3/4	CEA-12	0.035	2.5	33	100	888216/88821	500	888246/88824
1	CEA-13	0.035	3.0	53	100	888326/88832	400	888346/88834
1-1/4	CEA-14	0.035	3.5	68	50	888426/88842	200	888446/88844
1-1/2	CEA-15	0.040	4.5	88	50	888526/88852	150	888546/88854
2	CEA-16	0.040	5.5	102	50	888626/88862	100	888646/88864
2-1/2	CEA-17	0.050	8.0	168	25	888726/88872	-	-/-
3	CEA-18	0.050	10.0	252	25	888826/88882	-	-/-
4	CEA-19	0.060	12.0	344	25	888926/88892	-	-/-
5	CEA-500	0.099	17.5	468	25	-/88582	-	-/-
6	CEA-600	0.099	22.5	572	25	-/-	-	-/-

See page 37 for dimensions.

## TYPE ACEA, CEA AND ZHLA 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	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 (NFPA258)	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.