

TYPE ACEA



This non-UL liquidtight flexible aluminum conduit is designed for applications where safety concerns exist regarding a material's reaction in a fire situation and where weight is an issue.

CONSTRUCTION:

The flexible inner core of this product is made from an aluminum alloy strip. This core contains string packing between the helical convolutions in trade sizes 3/8 through 1-1/4 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 ACEA 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: Aluminum

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	
					Length	Part # Gray
3/8	ACEA-10	0.030	1.5	11	100	87901
1/2	ACEA-11	0.030	2.0	15	100	87911
3/4	ACEA-12	0.035	2.5	20	100	87922
1	ACEA-13	0.035	3.0	29	100	87932
1-1/4	ACEA-14	0.035	3.5	40	50	87942
1-1/2	ACEA-15	0.040	4.5	56	50	87952
2	ACEA-16	0.040	5.5	73	50	87962
2-1/2	ACEA-17	0.050	8.0	104	25	87972
3	ACEA-18	0.050	10.0	144	25	87982
4	ACEA-19	0.060	12.0	192	25	87992

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.