

HEAT SHRINK BUSBAR INSULATION TUBING (EDBI)

Voltage class 24 kV,
Application ø 6.5 mm - 150 mm

KEY FEATURES

- Up to 24 kV for diameter 6.5 - 150 mm busbar
- Thermal endurance rating 105°C (IEC 60216)
- Heat shrinkable with recovery temperature 125°C
- Cost effective solution for basic indoor applications, i.e. in enclosed air insulated switchgear
- Packaged on spools only
- Can be stored at temperatures up to 50°C

TE Connectivity's (TE) SIGMAFORM EDBI is a heat shrink busbar insulation tubing for indoor air insulation applications on round or rectangular busbars. It is used to reduce air space clearances in electrical equipment.

This product meets minimum requirements of 105°C thermal endurance and can be installed in most indoor or enclosed applications.

TE's SIGMAFORM EDBI heat shrink insulation tubing is available on bulk spools only. Product markings include part description, LOT number and production date.

CLEARANCE REDUCTION

The tables indicate the clearance reductions which are possible using TE's SIGMAFORM EDBI. These clearances offer guidance according to IEC 60071-2 and should not be adopted without testing by the user. Electrode geometry can influence final design.

Related Voltage (kV)	Phase-phase (mm)	Phase-ground (mm)	IEC60071-2 Air Clearance (mm)
Round Busbars			
12	55	65	120
17.5	70	85	160
24	95	125	220
Rectangular Busbars			
12	65	75	120
17.5	85	105	160
24	115	150	220

Key product specification	Test method	Requirement
Thermal endurance	IEC 60216	105°C min
Accelerated ageing - Tensile strength - Ultimate elongation	ASTM D2671	168 hrs @ 120°C 10 MPa min. 300% min.
Tracking and erosion resistance	ASTM D2302 - Step	1hr @ 2.50 kV 1hr @ 2.75 kV
Dielectric strength	ASTM D149	12 kV/mm @ 2.9 mm
Flammability	ANS (IEEE) C37.20.0	60 sec max.

Technical Report	
EDR-5621	EDBI Product Qualification Report
PPR-3392	EDBI Material Qualification Report

Installation Instructions	
EPP-3032-1/18	EDBI Installation Instructions

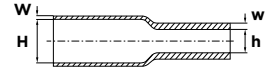
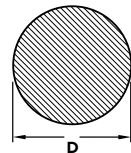
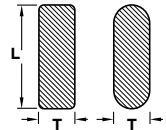
PRODUCT SELECTION

TE's SIGMAFORM EDBI tubing should normally be used on the following busbar sizes

Description	Product selection				Ordering information				UOM: roll of length (M)	Product Color
	Rectangular bars L + T (mm)		Round bars D (mm)		Inside diameter (mm)		Wall thickness (mm)			
	min.	max.	min.	max.	H. min	H. max.	W. min	W. max		
EDBI-15/6(S30)	12	18	6.5	12	15	6	0.9	2.5	30	Red
EDBI-15/6(C300)	12	18	6.5	12	15	6	0.9	2.5	300	Red
EDBI-30/12(S30)	22	38	13.5	25	30	12	0.9	2.5	30	Red
EDBI-30/12(C200)	22	38	13.5	25	30	12	0.9	2.5	200	Red
EDBI-50/20(S30)	36	65	22	43	50	20	0.9	2.5	30	Red
EDBI-50/20(C150)	36	65	22	43	50	20	0.9	2.5	150	Red
EDBI-75/30(S20)	55	95	33	63	75	30	0.9	2.5	20	Red
EDBI-75/30(C100)	55	95	33	63	75	30	0.9	2.5	100	Red
EDBI-100/40(S25)	70	130	44	86	100	40	0.9	2.5	25	Red
EDBI-100/40(C80)	70	130	44	86	100	40	0.9	2.5	80	Red
EDBI-120/50(S25)	90	165	55	105	120	50	1.2	2.8	25	Red
EDBI-120/50(C70)	90	165	55	105	120	50	1.2	2.8	70	Red
EDBI-175/70(S15)	125	235	80	150	175	70	1.2	2.8	15	Red
EDBI-175/70(C60)	125	235	80	150	175	70	1.2	2.8	60	Red

Note: W, H = as supplied. w, h = after free recovery

Maximum longitudinal change after free recovery: 0%, -10%. Maximum eccentricity (as supplied): 40% (after free recovery) 15%. Fit the larger size of EDBI if two sizes fit the required application. Installation Instruction EPP-3032-1/18 and material safety data sheet available on request.



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