

RSFRNH-BTM Medium Voltage Cross-linked Polyolefin Bus Bar Tubing



- Flame Retarded
- Reduce bus bar clearance requirements
- Protect against accidental flashover
- Anti-track
- Halogen free
- Tested to IEC60684 standards for medium voltage switch-gear applications above 20kV
- Continuous Operating Temperature:-40°C to 100°C ,can be used in 175°C
- Shrink Temperature:120°C

RSFRNH-BTM is made from specially formulated radiation cross-linked halogen free compounds. It can provide high resistance to tracking and arcing, as well as enhance the insulation properties of bus-bar in switchgear and substation. Suitable for application in insulating medium voltage bus bars, cable termination and joints from 1KV to 24KV.

Selection Table

Normal size (mm)	As supplied/mm	After recovered/mm		Standard length m/Roll
	Inside diameter (Min)	Inside diameter(Max)	Wall thickness (Min)	
Φ20/6	20	6	2.2±0.3	25
Φ28/9	28	9	2.6±0.3	25
Φ33/10	33	10	2.8±0.3	25
Φ40/12	40	12	2.8±0.3	25
Φ45/14	45	14	3.0±0.3	25
Φ55/16	55	16	3.0±0.3	25
Φ65/19	65	19	3.0±0.3	25
Φ75/22	75	22	3.0±0.3	25
Φ85/25	85	25	3.2±0.3	25
Φ95/30	95	30	3.2±0.3	25
Φ115/34	115	34	3.3±0.3	25
Φ130/36	130	36	3.3±0.3	25
Φ160/50	160	50	3.3±0.3	25
Φ180/56	180	56	3.3±0.3	25

Technical Data

Physical

Property	Test Method	Standard Performance	Typical Performance
Tensile strength	IEC 60684	≥8Mpa	10.5 Mpa
Elongation	IEC 60684	≥400%	550%
Heat Aging tensile strength	150°C×168h	≥5Mpa	9.5 Mpa
Heat Aging elongation	150°C×168h	≥200%	450%
Heat shock	225°C×4h	no cracking or flowing	no cracking or flowing
Flammability	IEC 60684	Passed	Passed
Low temperature Flexibility	-40°C×4h	no cracking	no cracking

Electrical

Property	Test Method	Standard Performance	Typical Performance
Dielectric Strength	IEC 60684	≥20KV/mm	23kV/mm
Volume Resistivity	IEC 60684	≥1×10 ¹³ Ω·cm	2×10 ¹⁴ Ω·cm
Tracking(2.5kv,60min)	IEC 60684	no cracking	no cracking