



High Voltage [MW] Bus Bar Tubing

The **JOINTMASTER** -  elcon medium wall flexible heat shrink bus bar tubing is used on straight bus bars, to help reduce the clearance distance required between two phases in high voltage switchboards

VOLTAGE [kV]	DISTANCE IN AIR	ON ROUND BUS BAR		ON RECTANGULAR BUS BAR	
		Ph/Ph	Ph/gr	Ph/Ph	Ph/gr
12	120	50	60	60	70
17.5	160	65	80	80	100
24	220	90	120	110	145
36	320	145	200	190	280



Tubing Size	A(exp)	B(rec)	C(rec)	Roll Length
TBMT 30/12	30	12	2.3	40m
TBMT 50/20	50	20	2.5	40m
TBMT 75/30	75	30	2.5	40m
TBMT 100/40	100	40	2.5	40m
TBMT 120/50	120	50	3.0	40m

MATERIAL SPECIFICATION: Medium Wall Bus Bar Tubing		
PROPERTY	RESULTS	TEST METHOD
THERMAL PROPERTIES		
Continuous operating temperature	-40 ~ +100°C	IEC 216
Shrinking temperature	120°C	IEC 216
Thermal shock	No damage	ASTM D 2671-746
Flamability	Not Self extinguishing	ASTM D 876
PHYSICAL PROPERTIES		
Shrink ratio	3 : 1	
Tensile strength	>12 N/mm ²	ASTM D 638
Elongation	> 300%	ASTM D 638
Longitudinal shrinkage	< 10%	ASTM D 2671
Permeability	< 0,1%	UNI ISO 62
ELECTRICAL PROPERTIES		
Dielectric strength	> 15 kV/mm	ASTM D 149
Volume resistivity	> 1 x 10 ¹⁵ cm	ASTM D 257
Permittivity	3	IEC 250
CHEMICAL PROPERTIES		
Mould resistance	No growth	ASTM G 21 - D 638

Setting the Standards in Cable Jointing