

Flexible flame retardant polyolefin heat shrink tubing

FITCOTUBE® FT-SNV-U(1)

Polyolefin heat shrinkable tube for high-voltage copper busbars of electric vehicles, with a rated voltage of DC60V-1000V or AC25V-660V. Excellent high temperature resistance, elastic recovery, anti-cracking and no visible air bubble trapped after shrinkage.

Operating temperature:	-55°C to +125°C
Shrink temperature:	125°C
Shrink ratio:	2:1, 2.5:1 and 3:1
Standard color:	Black, Orange, Red
Approvals:	According to UL

Description	As supplied(mm)		After recovered (mm)		Applicable rectangular busbar(mm)		Applicable round busbar(mm)	
	Inner diameter (min.)	Wall thickness (nom.)	Inner diameter (max.)	Wall thickness (nom.)				
2:1								
FITCOTUBE® FT-SNV-U(1) 12/6	12.0	0.70 ±0.20	6.0	1.40 ±0.20	≥12	≤15.5	≥7.5	≤10
FITCOTUBE® FT-SNV-U(1) 15/7.5	15.0	0.70 ±0.20	7.5	1.40 ±0.20	≥15	≤18.5	≥9.5	≤12
FITCOTUBE® FT-SNV-U(1) 18/9	18.0	0.70 ±0.20	9.0	1.40 ±0.20	≥18	≤22	≥10.5	≤14
FITCOTUBE® FT-SNV-U(1) 20/10	20.0	0.70 ±0.20	10.0	1.45 ±0.20	≥19	≤25	≥13	≤16
FITCOTUBE® FT-SNV-U(1) 22/11	22.0	0.70 ±0.20	11.0	1.45 ±0.20	≥22	≤28	≥14	≤18
FITCOTUBE® FT-SNV-U(1) 25/12.5	25.0	0.70 ±0.20	12.5	1.50 ±0.20	≥26	≤31	≥16	≤20
FITCOTUBE® FT-SNV-U(1) 28/14	28.0	0.70 ±0.20	14.0	1.50 ±0.20	≥28	≤35	≥18	≤22
FITCOTUBE® FT-SNV-U(1) 30/15	30.0	0.70 ±0.20	15.0	1.50 ±0.20	≥30	≤37.5	≥20	≤24
FITCOTUBE® FT-SNV-U(1) 35/17.5	35.0	0.70 ±0.20	17.5	1.50 ±0.20	≥35	≤44	≥22	≤28
FITCOTUBE® FT-SNV-U(1) 40/20	40.0	0.70 ±0.20	20.0	1.50 ±0.20	≥40	≤47	≥26	≤30
2.5:1								
FITCOTUBE® FT-SNV-U(1) 10/4	10.0	0.70 ±0.20	4.0	1.60 ±0.20	≥8	≤12.5	≥5	≤8
FITCOTUBE® FT-SNV-U(1) 12/5	12.0	0.70 ±0.20	5.0	1.60 ±0.20	≥10	≤15.5	≥6.5	≤10
FITCOTUBE® FT-SNV-U(1) 15/6	15.0	0.70 ±0.20	6.0	1.60 ±0.20	≥12	≤18.5	≥7.5	≤12
FITCOTUBE® FT-SNV-U(1) 20/8	20.0	0.70 ±0.20	8.0	1.60 ±0.20	≥16	≤25	≥10	≤16
FITCOTUBE® FT-SNV-U(1) 25/10	25.0	0.70 ±0.20	10.0	1.70 ±0.20	≥19	≤31	≥12	≤20
FITCOTUBE® FT-SNV-U(1) 30/10	30.0	0.70 ±0.20	12.0	1.80 ±0.20	≥24	≤37.5	≥15	≤24
FITCOTUBE® FT-SNV-U(1) 35/14	35.0	0.70 ±0.20	14.0	1.80 ±0.20	≥26	≤44	≥17	≤28
3:1								
FITCOTUBE® FT-SNV-U(1) 15/5	15.0	0.70 ±0.20	5.0	1.80 ±0.20	≥10	≤18	≥6	≤11.5
FITCOTUBE® FT-SNV-U(1) 20/7.5	20.0	0.70 ±0.20	7.5	1.80 ±0.20	≥14.5	≤23.5	≥9	≤15
FITCOTUBE® FT-SNV-U(1) 25/8.5	25.0	0.70 ±0.20	8.5	2.00 ±0.20	≥16	≤30	≥10	≤18.8
FITCOTUBE® FT-SNV-U(1) 30/10	30.0	0.70 ±0.20	10.0	2.10 ±0.20	≥19	≤35	≥12	≤22.5
FITCOTUBE® FT-SNV-U(1) 40/13	40.0	0.70 ±0.20	13.0	2.10 ±0.20	≥24	≤47	≥15	≤30

Special sizes on request

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Properties	Unit	Requirement
Thermal		
Concentricity before shrink	%	≥65
Concentricity after shrink	%	≥85
Longitudinal change	%	-5 ~ +5
Flammability	--	Burning time less than 30S.
Low temperature flexibility (-55°C±2°C/4h±10min)	--	No cracking
Resistant to rupture after being heated (158°C±2°C/168h±2h)	--	No cracking
Heat Shock (180°C±2°C/4h±10min)	--	No cracking, dripping or flowing
Crack resistance after heating (120°C±2°C/168h±2h)	--	Cut extension length ≤ 5mm
Load deformation (125°C±2°C/60min±5min)	%	≤50
Temperature change	--	No cracking
Mechanical		
Tensile strength	MPa	≥10.4
Ultimate elongation	%	≥300
After Heat Aging (158°C±2°C/168h±2h) Tensile Strength	MPa	≥7.3
Ultimate Elongation	%	≥100
Shore hardness	--	≤A/15: 95
Electrical		
Volume resistance	Ω.cm	≥1.0×10 ¹²
Breakdown voltage -Room temperature -After Aging (158°C±2°C/168h±2h)	V	≥7000 ≥3500
Chemical		
Water absorption (23°C±2°C/24h±1h)	%	≤0.5
Copper corrosion (158°C±2°C/168h±2h)	--	No corrosion

Also available with adhesive liner on request.