

Heat shrink tubing for fire hazard environments

thick wall cross-linked polyolefin - 1.5 m bars

GTRF tubings are suitable for use in safety and emergency networks which requires circuit service integrity and/or insulation in fire hazard environments




APPLICATIONS

- Electrical insulation of conductors, cables and accessories in low voltage applications up to 0.6/1 kV
- Mechanical protection of low and medium voltage cables
- **Suitable for use in emergency and safety systems on ships, in tunnels, underground, public buildings, power plants, and in low fire hazard environments**

FEATURES

- Thick wall cross-linked polyolefin
- High electrical and mechanical resistance
- Halogen-, lead- and aluminium-free
- Non-corrosive
- UV-stabilized against irradiation
- Black

	ref.	item	D/d (mm)	bar length (m)	thickness T (mm)	t (mm)	cable/wire diameter range (mm)	pack. (pcs)	min./ mult ord. qty (pcs)
	GT50008	GTRF-8/3-1500/U	8/3	1.5	0.6	2.0	3.5 – 7	1	1
	GT50016	GTRF-16/5-1500/U	16/5	1.5	0.7	2.4	5.5 – 14.5	1	1
	GT50024	GTRF-24/8-1500/U	24/8	1.5	0.9	2.9	9 – 21.5	1	1
	GT50032	GTRF-32/12-1500/U	32/12	1.5	1.0	4.0	13 – 29	1	1
	GT50045	GTRF-45/16-1500/U	45/16	1.5	1.0	4.0	17.5 – 40.5	1	1
	GT50060	GTRF-60/22-1500/U	60/22	1.5	1.0	4.0	24 – 54	1	1
	GT50070	GTRF-70/25-1500/U	70/25	1.5	1.0	4.0	27.5 – 63	1	1

Dielectric strength (IEC 60243)
10 kV/mm (min)

Volume resistivity (IEC 60093)
 $1 \times 10^{10} \Omega \cdot \text{cm}$ (min)

Operating temperature
-40 °C / 120 °C

Flammability and flame
propagation test (EN 60332-1)
pass

Smoke density test (IEC 61034)
pass

Temperature index
(NES 715 Type B)
250 °C (min)

Longitudinal shrink after free recovery
 $\leq -15\%$

Density (ISO 1183 method A)
 1.5 g/cm^3

Tensile strength (ISO37)
8 MPa (min)

Elongation (ISO 37)
200 % (min)

Corrosion (ASTM D 2671 proc. A)
No corrosion after 16 hours at 150 °C

Low temperature flexibility
(ASTM D 2671 procedure C)
No cracking after 4 hours at -40 °C

Hardness (ISO 868)
 $\geq 40 \text{ SHORE D}$



D Supplied diameter (before shrinkage)
T Thickness before shrinkage
d Recovered diameter (after free shrinkage)
t Recovered thickness (after free shrinkage)



Shrink ratio



Compliant to
Directive EU
2015/863 (RoHS 3)



Halogen free