

## 100pcs DIN EN 60445 (VDE 0197) color codes heat shrink tube - assortment

### Item No.: 1812CA008

This range of shrink tubing is based on the wire identification for DC applications according to DIN EN 60445 (VDE 0197) - "Basic and safety rules for the man-machine interface", which has been valid since Feb. 2018. In order to identify the outer conductors in DC systems, a new color marking was introduced: the positive outer conductor is to be marked in future with red, the negative outer conductor with white. The color black as well as green / yellow serve to round off.

This 100pcs heat shrink tubing range in the shrink ratio 3:1 (with inner adhesive for the colors red, white, black) and shrink rate 2:1 (without inner adhesive for the color: green / yellow).

The application range is 1.6 / 2.4 / 3.2 and 4.8 mm can be use on the large range of the cable sizes and can be used for insulation, protective sheathing of cables, as anti-kink protection, protection against corrosion, as well as repair of cables and much more be used.



Material	PE
Shrinking temperature	90°C - 125°C
Operation temperature	-40°C - 125°C
Flammability	VW-1
Tensile strength	≥ 10.3Mpa
Elongation at break	≥ 300%
Rated voltage	600V
Diselectric strength	≥ 1.5kv/mm at 30sec.
Volume resistivity	≥ 10 <sup>14</sup> Ω

Heat shrink tube		Length	Color	Shrink ratio	pcs
Inner diameter ø	after shrink ø				
1.6 mm	0.5 mm	32 mm	Red	3 : 1	7
1.6 mm	0.5 mm	32 mm	White	3 : 1	7
1.6 mm	0.5 mm	32 mm	Black	3 : 1	7
1.6 mm	0.8 mm	32 mm	Green/Yellow	2 : 1	7
2.4 mm	0.8 mm	32 mm	Red	3 : 1	7
2.4 mm	0.8 mm	32 mm	White	3 : 1	7
2.4 mm	0.8 mm	65 mm	Black	3 : 1	7
2.4 mm	1.2 mm	65 mm	Green/Yellow	2 : 1	7
3.2 mm	1.0 mm	65 mm	Red	3 : 1	7
3.2 mm	1.0 mm	65 mm	White	3 : 1	7
3.2 mm	1.0 mm	95 mm	Black	3 : 1	7
3.2 mm	1.6 mm	95 mm	Green/Yellow	2 : 1	7
4.8 mm	1.6 mm	65 mm	Red	3 : 1	4
4.8 mm	1.6 mm	65 mm	White	3 : 1	4
4.8 mm	1.6 mm	95 mm	Black	3 : 1	4
4.8 mm	2.4 mm	95 mm	Green/Yellow	2 : 1	4