

TECHNICAL SPECIFICATION

Heat shrinkage tubes ZDG type



Description:

Thin-wall heat shrinkage tubes are used for insulation of cable connection, at conductors repair to protect the cable head from corrosion, for protection of the cable insulation from water and moisture, for restoring the cable insulation integrity, etc. It is a plastic thin wall pipe which at temperature higher than 120°C shrinks its initial diameter to a certain degree. The material has high temperature and UV rays wear resistance. The material represents the so called permanently netted plastic. This material is obtained as the plastic billet is processed with the help of high energy electron rays so that inner molecular bonds between adjacent molecules are formed. After that the pipe is heated to the boiling point, the pipe inflates, so do the inner molecular bonds. Then the pipe is sharply refrigerated and the molecules stay in the condition of inflated bonds for indefinite long time. Heating the pipe repeatedly (after being mounted to the given cable) the crystals melt again but due to the net structure, they resume the initial pipe diameter and take the form of the cable, pressing it and not allowing the moisture to get under the pipe.

Technical data:

- Material: triple cross – linked polyolefin
- Colours: blue, black, red, yellow, yellow-green, green, white
- Shrinkage ratio: min 2 : 1
- Ambient temperature: -40 to + 100°C
- Shrinkage temperature: min 120°C
- Condition of the material during fire exposure: slight burning
- The material does not emit hazardous substances
- Insulation resistance: $1 \times 10^{12} \Omega/\text{cm}$
- Application: general
- Insulating voltage 1000 V

Dimensions:



Standards:

EN 60684

EN 62321



Variants:

Type	D1 (mm)	D2 (mm)	S (mm)	Packing / Box (m)	Catalogue number
ZDG	1	0.5	0.04	200 / 4000	301001x
ZDG	1.5	0.75	0.04	200 / 4000	301115x
ZDG	2	1.0	0.05	200 / 4000	301002x
ZDG	3	1.5	0.05	200 / 2000	301003x
ZDG	4	2.0	0.08	100 / 1700	301004x
ZDG	5	2.5	0.08	100 / 1200	301005x
ZDG	6	3.0	0.08	100 / 1000	301006x
ZDG	7	3.5	0.08	100 / 1000	301007x
ZDG	8	4.0	0.08	100 / 1500	301008x
ZDG	9	4.5	0.08	100 / 1500	301009x
ZDG	10	5.0	0.08	100 / 1500	301010x
ZDG	11	5.5	0.08	100 / 1500	301011x
ZDG	12	6.0	0.08	100 / 1200	301012x
ZDG	13	6.5	0.08	100 / 1200	301013x
ZDG	14	7.0	0.08	100 / 1200	301014x
ZDG	15	7.5	0.08	100 / 1200	301015x
ZDG	16	8.0	0.08	100 / 1200	301016x
ZDG	18	9.0	0.08	50 / 600	301018x
ZDG	20	10	0.08	50 / 500	301020x
ZDG	22	11	0.08	50 / 500	301022x
ZDG	25	12.5	0.08	25 / 600	301025x
ZDG	28	14	0.08	25 / 300	301028x
ZDG	30	15	0.08	25 / 300	301030x
ZDG	35	17.5	0.08	25 / 300	301035x
ZDG	40	20	0.08	25 / 250	301040x
ZDG	50	25	0.08	25 / 200	301050x
ZDG	60	30	0.08	25 / 300	301060x
ZDG	70	35	0.08	25 / 250	301070x
ZDG	80	40	0.08	25 / 100	301080x
ZDG	90	45	0.08	25 / 150	301090x
ZDG	100	50	0.08	25 / 100	301100x
ZDG	120	60	0.08	25 / 200	301120x
ZDG	150	75	0.08	25 / 100	301150x

Note: *At orders after the catalogue number of the corresponding diameter a letter showing the colour must be added: B-blue; R-red; K-black; G-green; Y-yell