

System DG-CR 0.7

Intumescent fabric for protecting cables and cable systems from fire and other external factors



Field of Application

- prevents flame spread
- maintains the functional integrity of cables in the event of a fire
- protects cables from external factors
- designed for indoor and outdoor use
- suitable for many different environments, e.g. (nuclear) power plants, electrical substations, production and industrial facilities, infrastructure objects or public buildings.

Benefits

- Fast intumescent reaction with strong expansion pressure.
- No prior cleaning of cable systems required.
- Convenient subsequent installation of cables without any additional requirements.
- Application with standard tools – no special tools needed.
- No layer thickness measurement required.
- Weatherproof – can be used indoors and outdoors.
- Resistant to moisture, freeze-thaw cycling, UV radiation as well as various oils and chemicals.

Technical specifications

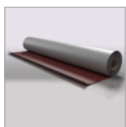
Fire behaviour	Class B-s1,d0	• as per EN 13501-1
Flame spread	Cat. A: 2018 for 120 min.	• as per IEC 60332-3-22 (DNV GL Certificate No. TAE00003BR)
Maintenance of functional integrity	Various tests up to 90 min. for different cable types and voltage ranges	• as per IEC 60331-21
Smoke density	$D_s(4) = 12$, $VOF4 = 31$ min., $D_s(\max) = 18$	• as per DIN EN ISO 5659-2
Smoke toxicity	$CIT_g = 0,31$ (Conventional Index of Toxicity) No HCl, HF, HBr or HCN emission	• EN 45545-2 Annex C and ISO 5659-2

System DG-CR 0.7

Resistances

Ageing resistance	Ageing does not have an effect on the general properties of System DG-CR 0.7.	
	Artificial ageing without impairment Indoor/outdoor areas: extreme temperature changing from +71 °C to -40 °C, UV radiation and humidity	<ul style="list-style-type: none"> • as per FM 3971 • as per EOTA TR024
	Long-term ageing without impairment The material was stored for 10 years in an indoor area without any resulting changes in its reaction to fire (MPA Braunschweig (notified body 0761), report no. 3224/821/11).	
Weather resistance	Use category X (product suitable for use in areas exposed to weathering).	<ul style="list-style-type: none"> • as per EOTA TR024
Chemical resistance	Exposure to solvents (butyl acetate, butanol, white spirit and heating oil). Exposure to subsequently applied coatings (acrylic dispersions, alkyd resins, polyurethane acrylic and epoxy resins).	<ul style="list-style-type: none"> • as per EOTA TR024

Products



DG-CR 0.7

Fire protection fabric

Roll, 10 m × 1100 mm – Art. no. 01260110

Roll, 20 m × 1100 mm – Art. no. 01260231

Metal strap

100 × 15 mm – Art. no. 01234000

Sealing clips

1000 pcs. – Art. no. 01234100

Design Variants

	Wrapping for entire cable support structures		Wrapping for cables in support structures
	Wrapping for cable systems placed directly on solid components		Wrapping for cable systems fastened with clamps or on brackets
	Wrapping for freely suspended cable systems		