

ABOUT THIS PRODUCT

Made of 0.22mm diameter monofilament polyester, this sleeve is widely used in mechanical and thermal applications, providing good protection to cable bundles and offers excellent abrasion resistance. The special braiding allows this sleeve to considerably increase the inside diameter whilst at the same time contracting in length, is lightweight and very tough, making it an ideal general purpose cable harness sleeve.

Handling: No special handling requirements.



FEATURES AND BENEFITS

- Extremely flexible
- 1:2 expansion ratio (approx.)
 - Halogen free
- Good chemical resistance
- Very good abrasion resistance
 - Self-extinguishing
- UL94 V0 (raw material)
 - IEC60684 sheet 341
 - EN 45545-2 2013

APPLICATIONS

- Stress relief
- Harnessing
- Mechanical and thermal protection

MATERIAL DATA

Product Code	245
Material	Monofilament Polyester
Standard Colour	Black, Grey
Expansion Ratio	1:2 (approx.)
Operating Temperature – °C	-70 – +150
Approval	UL 224, IEC 60684, SAE ARP 1536 A
	EN 45545-2 2013 R22 & R23: Hazard Level HL1, HL2, HL3

TECHNICAL TABLE

Property	Test	Results		
Thermal overcharge and ageing resistance	Simulation of real operating conditions	Good resistance to thermal overcharges. Maintains its properties after accelerated thermal ageing: 10 days at 175°C		
Longitudinal Change	IEC 60684 – Part 2 Clause 9 4 hours at 175°C±2°C	10% Maximum		
Chemical Resistance	Simulations of real operating conditions	Fluid	1 hour @ 23°C	5mins @ 90°C
		Unleaded 98 Octane Petrol	Pass	----
		Diesel Fuel	Pass	----
		Antifreeze - Renault Glaceol RX Type D	Pass	Pass
		Windscreen washer fluid - ad. Pro	Pass	----
		White spirit	Pass	----
		Brake fluid - DOT5	----	Pass
		Motor oil - Elf Competition 15W50S	----	Pass
		Cold degreaser - Renault 20	----	Pass
Flammability	FMV SS302	Self-extinguishing		
Cold Resistance	Bending at low temperature IEC 60684 – Part 2 Clause 14	No cracking after bending at -70°C		
Smoke Density	ISO 5659-2	Ds max: 114		
Gas Toxicity	NF X-70-100-1 2006 NF X-70-100-2 2006	Conventional Toxicity Index ITC: 8,56		
Oxygen Index	NF EN ISO 4589-2 1999	I O: 34,3%		
Smoke Class	NF F 16-101	Smoke Index IF: 12 ; Smoke Class: F1; Reaction to fire Class: I2		
Fire Behaviour	EN 45545-2 2013	R22&R23 : Hazard level HL1, HL2, HL3		

DIMENSIONS

Size	Minimum	Nominal	Maximum (*)	No of ends	% coverage nominal Ø	Standard Packaging
3	2	3	5	2.5	79	200
4	3	4	7	3	87	200
5	4	5	9	3	90	200
6	5	6	10	3	84	200
8	6	8	14	3	81	200
10	8	10	18	3	82	200
12	10	12	21	3	82	200
15	12	15	22	3	80	100
20	15	20	27	3	73	100
25	20	25	34	3	66	100
30	25	30	45	4	80	100
40	35	40	60	4	67	50
50	45	50	73	5	75	50
70	62	70	90	6	81	50