



ZHCP

Low fire hazard, profile extrusion for cable protection when using metal cable ties

The Thermofit* ZHCP* profile extrusion is made from Tyco Electronics Raychem brand Zerohal* material. The product is used in conjunction with cable ties for holding together bundles of cables - inside cabinets, in trunking, against walls - in fact anywhere cables are tied together.

The Thermofit* ZHCP* profile extrusion exhibits outstanding fire safety characteristics - low smoke emission, low Toxicity Index (as defined by NES 711) and low acid gas generation. These properties are combined with good mechanical and fuel resistance. ZHCP is listed in BR1326 and has been given a hazard category rating of G for general use.

Key Features:

- Continuous Operating Temperature -30 °C to +105 °C
- Full fire testing has been carried out in accordance with Def Std 07-247

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Typical data

Fire Safety Properties	Minimum Performance	Test Method
Limiting Oxygen Index (LOI)	29	ISO 4589-2
Temperature Index	250 °C	ISO 4589-3
Flame Retardancy - burntime	100 seconds max	
burn length	25mm max	ASTM D635
Smoke Index	20 max	IEC 60684-2 (Def Std 02-711)
Toxicity Index	5 max per 100 grams	IEC 60684-2 (NES 713)
Acid Gas Generation		
- pH index	4.3 - 10.5	
- Electrolytic conductivity	10pS/mm max	IEC 60754-2

Physical

Tensile strength (TS)	8MPa min	ISO 37
Ultimate Elongation	150% min	ISO 37
2% Secant Modulus	130MPa max	ASTM D882
Specific Gravity	1.65 max	ISO 1183
Heat ageing 120 hours at 130 °C (TS)	6MPa min	ISO 188
Ultimate Elongation	100% min	ISO 37
Heat Shock 4 hours at 225 °C	No dripping, cracking or flowing	ASTM D2671
Low temperature flexibility		
4 hours at -30 °C	Pass	RK6193

Electrical

Electrical strength	15MV/m min (15KV/mm)	IEC 60243-1
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Chemical

Water absorption	1.5% max at 23 °C for 24hrs +/- 2hrs immersion	ISO 62
	4.0% max at 70 °C for 24hrs +/- 2hrs immersion	ISO 62
Fluid resistance		
0149 (50 °C) (TS)	6 MPa min UE 75% min	ISO1817 and
IRM 902 Standard Oil (TS)	6 MPa min UE 75% min	ISO 37

Specification

RK 6193

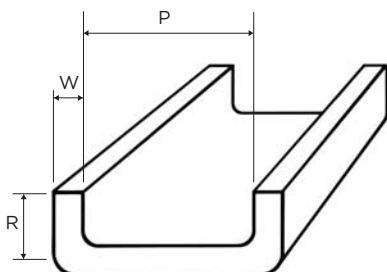
Installation

Use the size of ZHCP appropriate to the overall cable diameter being bundled. Cut to required length and install underneath cable tie. No heat is required.

Ordering Information

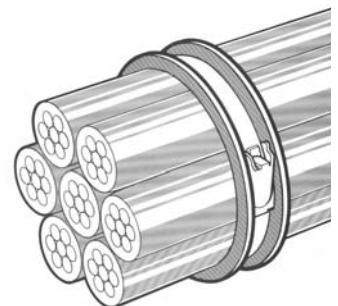
Supplied in spools of 50m
Standard colour is black

Dimensions



	Nominal			Rec. bundle diameter (min) mm
	P mm	R mm	W mm	
ZHCP NR1	16.2	3	1.5	80
2	10.2	3	1.5	50
3	8.1	3	1.1	40
4	4.7	1.5	0.8	20
6	13.2	3	1.5	65

Typical Installed Example



*Raychem, Thermofit, ZHCP, Zerohal, Tyco Electronics and TE logo are trademarks

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