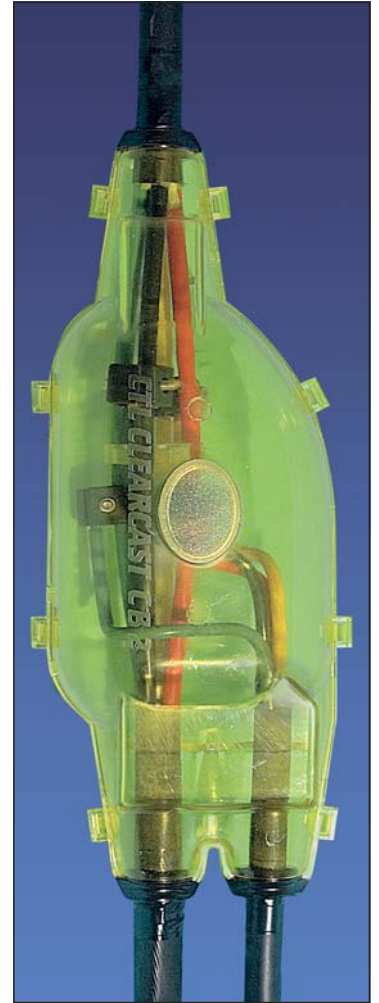


LV Resin Cable Joints - Low Smoke Zero Halogen

suitable for PVC or XLPE cable, 1kV



Distinguished by its yellow-tinted injection-moulded shells, CTL's range of Low Smoke Zero Halogen cable joints has been especially developed to meet the increasing demand for joints that match the characteristics of modern flame retardant, fire resistant and low smoke cables.

To reflect the specialist application, these joints can be installed without the need for dedicated tools or the application of heat.

All of the popular and well-established features of standard CTL joints have been retained. Internationally, there are several standards that regulate fire behaviour. CTL products conform to the following national standards:-

UK:- BS 476 Part 7, Class 1Y rating.
Germany:- DIN 4102/part 1, B1 rating.
France:- NFP 92 501, 5 & 16, M2 rating.

A typical kit consists of an outer shell manufactured from UV stable, low smoke, zero halogen, flame retardant material that matches or exceeds the relevant properties of similarly specified cable.

For the majority of applications it is only the shell that requires specialist fire-sensitive properties. In these cases CTL's standard two-part polyurethane resin is supplied in easy-mix pouches.

When specifications call for the resin to also be flame retardant,

halogen-free and low smoke, joints are shipped with CTL's CR171H resin which is flame retardant to V0 rating of UL94.



LV Resin Cable Joints - Low Smoke Zero Halogen

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Specifications - CTL Low Smoke Zero Halogen cable joints

Properties of shell	Rating	Relevant standard
Flammability		
Flame retardant		
Flame class rating: 3mm	V-0	UL94
Flame class rating: 1mm	V-2	UL94
Glow wire test, 1 mm, 850 °C	Pass	IEC 695-2-1
Low Smoke		
Smoke density 4 min	Dm < 200	AIRBUS Standard ABD 0031
Halogens	Free	DIN VDE 472 part 815
Mechanical		
Tensile strength at yield (speed 50mm/min)	63 Mpa	ISO 527, DIN 53455
Impact		
Charpy Impact, notched	30 kJ/m ²	ISO 179/2C
Thermal		
Thermal conductivity	0.20 W/m °C	DIN 52612
Electrical		
Dielectric strength	17kV/mm	IEC 243, ASTM D 149
Volume resistivity	10 ¹⁵ Ohm.m	IEC 93, DIN53482
Surface resistivity	10 ¹⁵ Ohm	IEC 93, DIN53482
Properties of resin type CR171H		
Flammability - Flame class rating: 6mm	V-0	UL94
Physical properties		
Operating temperature	-40° C to +105° C	
Thermal conductivity	0.75 W/mK	
Shrinkage	Low	
Coefficient of linear expansion	Low	
Electrical properties		
Volume resistivity	11 - 13 log Ohm	
Surface resistivity	12 - 14 log Ohm	
Electric strength	> 16 MV/m	
Permittivity	3.2 @ 1 KHz	

Main Cable 2, 3 & 4 core (mm ²)	Branch Cable 2,3 & 4 core (mm ²)	Part No
Straight Joints		
1.5, 2.5, 4, 6		CM0LSHF
10, 16		CM1LSHF
25		CM2LSHF
35, 50, 70		CM3LSHF
95, 120		CM4LSHF
150, 185		CM6-07LSHF
240, 300		CM6-08LSHF
400		CM7-08LSHF
Branch Joints		
1.5, 2.5, 4, 6, 10	1.5, 2.5, 4, 6, 10	CB1LSHF
16, 25, 35	16, 25, 35	CB2LSHF
Accessories		
a) Brass connectors with Allen head screws for Cu or Al conductors.		
b) Aluminium alloy connectors with shear-head bolts & brass gauze for Cu or Al conductors		
c) Copper or aluminium crimp ferrules		



See page 15 for Hazardous Area Cable Glands.



See page 17 for cable clamps, troughs and "J" hooks especially designed for the rail industry.



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