



FIBRE OPTIC DTS HEAT DETECTION CABLE

IEC 60794 / DTS fire detection reference

4 orderable sizes

<b>STANDARD</b> IEC 60794 / DTS fire detection reference	<b>TEMPERATURE CLASS</b> 70 °C / 158 F, 85 °C / 185 F, 100 °C / 212 F, 120 °C / 248 F	<b>CONDUCTOR</b> Single-mode optical fibre temperature sensing element
<b>INSULATION / JACKET</b> LSZH, PE or stainless steel tube protected optical cable		

Construction

- 1 ■ Optical fibres – Colour-coded singlemode/multimode fibres
- 2 ■ Loose tube – Gel-filled buffer tube
- 3 ■ Strength member – Central FRP / steel rod
- 4 ■ Aramid yarn – Water-blocking + aramid strength
- 5 ■ Sheath – LSZH, PE or stainless steel tube protected optical cable

Size selection — all available cross-sections

Cable reference	Alarm temperature	Detector type	Sensor construction	Jacket material	Protection	Environment	Controller interface	Zone length guide	OD guide
Fibre optic DTS heat detection cable 70 °C / 158 F LSZH, PE or stainless steel tube protected optical cable	70 °C / 158 F	Fibre optic distributed temperature sensing cable	Single-mode optical fibre temperature sensing element	LSZH, PE or stainless steel tube protected optical cable	Dielectric strength member, steel tube or stainless steel braid by route	Long tunnels, rail corridors, power cable galleries and infrastructure monitoring	DTS interrogator with programmable alarm zones	1 km to multi-km route by DTS unit	7.0 mm
Fibre optic DTS heat detection cable 85 °C / 185 F LSZH, PE or stainless steel tube protected optical cable	85 °C / 185 F	Fibre optic distributed temperature sensing cable	Single-mode optical fibre temperature sensing element	LSZH, PE or stainless steel tube protected optical cable	Dielectric strength member, steel tube or stainless steel braid by route	Long tunnels, rail corridors, power cable galleries and infrastructure monitoring	DTS interrogator with programmable alarm zones	1 km to multi-km route by DTS unit	7.0 mm
Fibre optic DTS heat detection cable 100 °C / 212 F LSZH, PE or stainless steel tube protected optical cable	100 °C / 212 F	Fibre optic distributed temperature sensing cable	Single-mode optical fibre temperature sensing element	LSZH, PE or stainless steel tube protected optical cable	Dielectric strength member, steel tube or stainless steel braid by route	Long tunnels, rail corridors, power cable galleries and infrastructure monitoring	DTS interrogator with programmable alarm zones	1 km to multi-km route by DTS unit	7.0 mm
Fibre optic DTS heat detection cable 120 °C / 248 F LSZH, PE or stainless steel	120 °C / 248 F	Fibre optic distributed temperature sensing cable	Single-mode optical fibre temperature sensing element	LSZH, PE or stainless steel	Dielectric strength member, steel tube	Long tunnels, rail corridors, power cable	DTS interrogator with	1 km to multi-km	7.0 mm

Cable reference	Alarm temperature	Detector type	Sensor construction	Jacket material	Protection	Environment	Controller interface	Zone length guide	OD guide
tube protected optical cable		sensing cable	sensing element	tube protected optical cable	or stainless steel braid by route	galleries and infrastructure monitoring	programmable alarm zones	route by DTS unit	