

## CIRCUIT INTEGRITY ALARM CABLE

Zero Halogen, Low Smoke (OHLS®) cable, maintaining circuit integrity when exposed to fire. Meeting the Enhanced category of BS 5839-1:2002. Manufactured to BS 7629-1. Tested and approved by LPCB and BASEC.

FT120 has been specially designed to meet the Enhanced requirements detailed in BS 5839-1:2002, Clause 26.2e. It therefore meets the PH120 class, and additionally meets the requirements for integrated water spray and mechanical shock also described in Clause 26.2e, and detailed in BS 8434 Part 2:2003:

60 mins - fire and mechanical impact, followed by  
60 mins - fire, mechanical impact and water

FT120 achieves the Enhanced performance, whilst retaining all the advantages associated with a pliable cable. These include:

- Lower termination costs
- No special tools or training
- Ease of handling and installation
- Available in long lengths
- Twisted core construction to improve signal clarity
- Suitable for use in Zone 1 and Zone 2 hazardous areas

FT120 achieves the Enhanced performance by application of state of the art materials technology, providing advanced resistance to fire and heat, enabling the maintenance of circuit integrity through this most onerous testing protocol.

### Construction

Conductors:	Solid or stranded plain annealed copper wire.
Insulation:	Enhanced silicone rubber.
Binder:	Enhanced close weave glass tape.
Conductor (earth):	Solid or stranded tinned annealed copper.
Electrostatic screen:	Enhanced aluminium/polyester laminated tape.
Sheath:	Enhanced Thermoplastic Zero Halogen, Low Smoke (OHLS®) compound.

### Physical Characteristics

Voltage rating (Uo/U):	300/500V.
Operating temp:	-40°C to +90°C (The cable should not be flexed when either the ambient or cable temperature is below 0°C).
Min. bending radius:	6 x overall diameter of cable.

### Standards Achieved

Circuit integrity:	BS 5839-1:2002 Clause 26.2e Enhanced. BS 8434-2:2003. BS EN 50200 PH120. BS 6387 C, W & Z.
Flame propagation:	BS EN 60332-1, BS EN 60332-3.
Acid gas emission:	IEC 60754, BS EN 50267.
Smoke emission:	BS EN 61034

LPCB  
TESTED &  
CERTIFIED  
BASEC



Cable ref.	No. of cores	Conductor Class	CSA mm <sup>2</sup>	Protective earth conductor CSA mm <sup>2</sup>	Nominal overall diameter mm	Approx. nett weight kg/km
FTPLUS2EH1.5	2	1	1.5	1.5	8.6	130
FTPLUS3EH1.5	3	1	1.5	1.5	9.0	135
FTPLUS4EH1.5	4	1	1.5	1.5	10.1	170
FTPLUS2EH2.5	2	1	2.5	2.5	9.9	175
FTPLUS3EH2.5	3	1	2.5	2.5	10.6	200
FTPLUS4EH2.5	4	1	2.5	2.5	11.9	250
FTPLUS2EH4.0	2	2	4	4	11.7	250
FTPLUS3EH4.0	3	2	4	4	12.8	300
FTPLUS4EH4.0	4	2	4	4	14.4	370