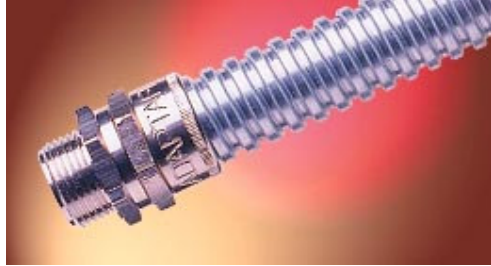




Flexible Conduit Systems

S Conduit



Construction & Features

S Conduit is manufactured from electro-galvanised steel strip, which is then profiled and helically wound into a flexible conduit. It is suitable for regular movements and vibrations.

The electro-galvanised plating is not suitable for external or wet environments. It is there to provide protection for the steel during manufacture, storage and transport.

S conduit provides high mechanical strength yet offers high flexibility.

The conduit offers high tensile strength, but should be measured under light tension to ensure this tensile strength is provided at the correct length.

It must not be subjected to torsion or twist since this could lead to the conduit unravelling.

Fire Performance

S conduit and fittings can be described as Inherent Low Fire Hazard (ILFH) system since they have no components that can be burnt. The product therefore is both flame retardant and does not give off any fumes when involved in a fire. Although steel would be resistant to flames, it should only be described as "Flame Retardant", the terms "Flame Resistant" or "Fireproof" should only be used to describe products which act as a fire barrier to protect an enclosure from the effects of a fire.

Applications

S conduit and fittings are used in applications where high mechanical strength or high temperatures are required. It is not suitable for damp or wet environments due to the possibility of rusting. S conduit only has a 2-5 galvanized coating and is therefore unsuitable for moist (humid) salty or acidic environments. Typical applications would be under-floor wiring, access flooring or in high temperature installations.

Colour: Grey zinc self-colour

IP Rating: IP40 with type A or B fittings

Operating Temperature: -50°C to +300°C



EN 50086





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TEST	Temperature °C	METHOD/ STANDARD	REQUIREMENT	VALUE	UNIT
Mechanical Properties					
Impact Strength	-25	EN50086-1		> 6.0	J (Joule)
Impact Strength	23			>20	J (Joule)
Crush Strength	23	EN50086-1	<25% Crush with >90% recovery	>1250	N (Newton)
Crush Strength	23	AFX norm C1989	10% Crush, Instantaneous Value	2200	N (Newton)
Tensile Strength	23	EN50086-1	With A - Type Fitting	>1000	N (Newton)
Tensile Strength	23	AFX norm T1987	Ultimate pull-out of A -Type Fitting	1450	N (Newton)
Static Bend radius	23	AFX norm S1985		45	mm
Dynamic Bend radius	-45	EN50086-2.3	5000 cycles	50	mm
Fire Smoke & Toxicity Properties					
Inherent Low Fire Hazard Material					
<p>All mechanical test data is based on nominal 20mm diameter product. For other sizes please contact the sales office. All specimens were conditioned for 168 hours at 23°C and 50% RH prior to test EN Classification (20mm with A Type fittings) 445641401410 Approvals: BSI Kitemark KM35161</p>					



EN 50086

