TECHNICAL DATA SHEET

SSAMHL

Anti-microbial liquid tight conduit



Anti-microbial liquid tight high temperature covered stainless steel flexible conduit. Suitable for food zone non-contact areas

Certifications / Standards:

KM35161

Features & Benefits:
- Stainless steel core string packed with anti-microbial protection incorporated into an FDA, EC and FSA compliant DuPont Hytrel® thermoplastic jacket
- High corrosion resistance
- High flexibility and fatigue life
- High chemical resistance levels
- Available in white or blue

Applications:
- Suitable for food zone non-contact areas

Temperature Range:
- Static applications: -50ºC to +130ºC
- Moving applications: -5ºC to +150ºC

IP Rating:

For use with Type SAM fitting
- IP65
- IP68 (10 bar 30 mins)
- IP69

Material / Materials / Finishes:
- Stainless steel core with string packing (string packed up to 32mm)
- FDA, EC and FSA compliant DuPont Hytrel® thermoplastic jacket
- Anti-microbial additive incorporated into Hytrel® jacket

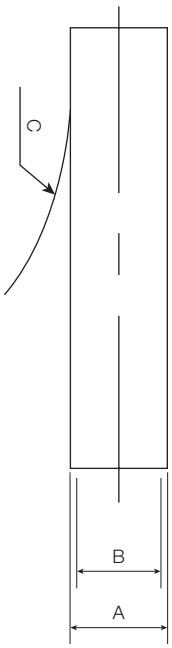
Conforms to:
- CE marked to Low Voltage Directive 2014/35/EU
- BSI Kitemark KM35161 to BS EN 61386
- NSF 14159-1-2014
- NSF 169-2009

Fire performance:
- Self extinguishing
- Zero halogen

Part Numbers and Dimensions

Part no:	Conduit Size		Dimensions			GID Code for conduit coil lengths			
	Metric (mm)	US (Trade size)	Outside Dia. (A)	Inside Dia. (B)	Bend Radi (C)	10m	25m	50ft	100ft
SSAMHL16	16	3/8”	17.8mm	12.5mm	50mm	7TCA296030R0509	7TCA296030R0510	--	7TCA296030R0521
SSAMHL20	20	1/2”	21.1mm	15.9mm	80mm	7TCA296030R0511	7TCA296030R0512	--	7TCA296030R0522
SSAMHL25	25	3/4”	26.4mm	21.0mm	110mm	7TCA296030R0513	7TCA296030R0514	--	7TCA296030R0523
SSAMHL32	32	1”	33.1mm	26.7mm	144mm	7TCA296030R0515	7TCA296030R0516	--	7TCA296030R0524
SSAMHL40	40	1 1/4”	41.8mm	35.4mm	180mm	7TCA296030R0517	--	7TCA296030R0525	--
SSAMHL50	50	1 1/2”	47.5mm	40.4mm	240mm	7TCA296030R0518	--	7TCA296030R0526	--
SSAMHL63	63	2”	59.7mm	51.6mm	345mm	7TCA296030R0519	--	7TCA296030R0527	--

Part number example: SSAMHL20/25M or SSAMHL20/100ft, blue version SSAMHL20/BU/50M. For conduit support use part number example SSPC20
Note[1]: Conduit is fully cleanable and will maintain full ingress protection under normal wet cleaning condtions with associated fittings
Note[2]: The anti-microbial additive containing inert ionic silver provides protection to the conduit against bacteria and other microbes



BS EN 61386 Classification

Type	Fitting	Compression	Impact	Min Temp	Max Temp	Bending	Electrical
SSAMHL	SPL (SAM)	4	4	2	5	4	2

BS EN 61386 Classification

Type	Fitting	IP Solids	IP Water	Corrosion	Tensile	Non-Flame Propgating	Suspended Load
SSAMHL	SPL (SAM)	6	7	-	4	1	5

Tensile tests to IEC 61386 gives the minimum classification value only. Actual values will depend on the type and size of the fittings used and will always be greater than the minimum – Impact strength is the minimum classification value at the minimum temperature – actual values will depend on size and temperature. Specific values available on request.

Mechanical Properties

Test type	Standard	Requirement	Status
Crush strength @ 23°C	IEC61386-1	<25% crush >90% recovery	>1250N
Crush strength @ 23°C	IEC61386-1	10% crush, instantaneous value	1800N
Tensile strength	IEC61386-1	With Type SAM fitting	>1000N
Tensile strength		Ultimate pullout of Type SAM fitting	>1600N
Impact strength @ 23°C		No cracks <20% deformation	>20J
Impact strength @ -5°C	IEC61386-1	No cracks <20% deformation	>6J
Dynamic bend radius @ -5°C	IEC61386-23	5,000 cycles minimum	6xOD

Thermal Properties

Test type	Standard	Requirement	Value
Dynamic applications	IEC 61386-23	5,000 operations @ MBR 2hrs	-5°C to +150°C
Static short term temp		Temporary use (3,000hrs)	-50°C to +150°C
Static long term temp		Permanent use (30,000hrs)	-40°C to +135°C

Flammability

Test type	Standard	Requirement	Result	Value
Glow wire	BS EN 60695-2-11	Extinguish within 30s	750°C	°C
Flammability	IEC 61386-1	1Kw burner flame to self extinguish	Pass	Pass/fail

Pre-test Conditions

Duration	Standard	Temperature	Relative Humidity
168 (hrs)	IEC 61386	23°C	50%

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