

TECHNICAL DATA SHEET

# SAMHURL

## Anti-microbial liquid tight conduit



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

**Certifications / Standards:**



**Features & Benefits:**

- Galvanised steel core copper 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: -50°C to +130°C
- Moving applications: -5°C to +150°C

**IP Rating:**

For use with Type SAM fitting

- IP65
- IP68 (10 bar 30 mins)
- IP69

**Material / Materials / Finishes:**

- Galvanised steel core with copper packing
- 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
- UR file number E135398

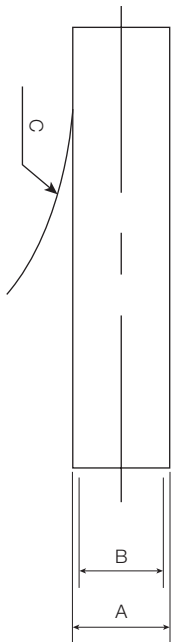
**Fire performance:**

- 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)			--	--
						50ft	100ft		
SAMHURL16	16	3/8"	17.8mm	12.5mm	50mm	7TCA296030R0540	7TCA296030R0541	--	--
SAMHURL20	20	1/2"	21.1mm	15.9mm	80mm	7TCA296030R0542	7TCA296030R0543	--	--
SAMHURL25	25	3/4"	26.4mm	21.0mm	110mm	7TCA296030R0544	7TCA296030R0545	--	--
SAMHURL32	32	1"	33.1mm	26.7mm	144mm	7TCA296030R0546	7TCA296030R0547	--	--
SAMHURL40	40	1 1/4"	41.8mm	35.4mm	180mm	7TCA296030R0548	--	--	--
SAMHURL50	50	1 1/2"	47.5mm	40.4mm	240mm	7TCA296030R0549	--	--	--
SAMHURL63	63	2"	59.7mm	51.6mm	345mm	7TCA296030R0550	--	--	--

Part number example: SAMHURL20/50FT, blue version SAMHURL20/BU/50FT. For conduit support use part number example SSPC20  
 Note: Conduit is fully cleanable and will maintain full ingress protection under normal wet cleaning conditions with associated fittings  
 Note: 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
SAMHURL	SAM	4	4	2	5	4	2

### BS EN 61386 Classification

Type	Fitting	IP Solids	IP Water	Corrosion	Tensile	Non-Flame Propagating	Suspended Load
SAMHURL	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%