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FLEXIBLE TUBING LTD

GALVANISED STEEL COPPER PACKED INTERLOCK



GALVANISED STEEL COPPER PACKED INTERLOCK FLEXIBLE METAL TUBING

Galvanised Steel Copper Packed Interlock is a flexible metal tube manufactured from profiled galvanised steel strip with a fully interlocked section and copper wire packing.

The packed construction produces a stiffer tube with higher gas tightness, making it suitable for exhausts and other applications where increased gas tightness or stayput properties are required.

Key Features

- Flexible interlocked galvanised steel construction
- Copper wire packing
- High crush resistance
- Great mechanical strength
- Stiffer, stayput characteristics
- Higher gas tightness
- Maximum operating temperature of +500°C
- Available for ducting, extraction, exhaust, material handling and protective casing applications

Non-standard lengths and intermediary sizes can also be manufactured where required.

Order non-standard lengths here

Please note the diameters listed below are all **inside diameters. Please check this before ordering.*

We can manufacture to intermediary sizes where required. If your size is not listed, please contact us.

PRODUCT DETAILS

Galvanised Steel Copper Packed Interlock – Product Details

Galvanised Steel Copper Packed Interlock is a flexible stripwound metal tube manufactured from galvanised carbon steel with a fully interlocked construction and wire packing.

The packed interlock construction provides flexibility, high crush resistance and great mechanical strength. The packing also produces a stiffer tube with increased gas tightness and stayput characteristics.

Key Features

- Galvanised steel flexible metal tubing
- Fully interlocked construction
- Copper wire packing as standard
- Cotton or rubber packing available on request
- Flexible construction
- High crush resistance
- Great mechanical strength
- Increased gas tightness
- Stiff / stayput characteristics
- Maximum operating temperature of +500°C
- Available in internal diameters from 20mm to 305mm
- Intermediary sizes can be manufactured where required
- Non-standard lengths available

All listed tubing diameters refer to the inside diameter (ID).

Manufacturing Tolerances

- Up to and including 76mm ID: +0.5mm / -0.0mm
- Over 76mm ID: +1.0mm / -0.0mm

TECHNICAL DATA

Bore Size	I/D (mm)	O/D (mm)	Inside Bend Radius (mm)	Weight (KG) per 100m

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3/4″	20	25	100	59
7/8″	22	27	110	71
1″	25	30	125	86
1.1/8″	28	33	140	92
1.1/4″	32	37	160	100
1.3/8″	35	40	175	109
1.1/2″	38	43	190	119
1.5/8″	41	46	205	129
1.3/4″	45	51	225	139
1.7/8″	48	53	240	147
2″	51	56	255	159
2.1/8″	54	60	270	172
2.1/4″	57	62	285	184
2.3/8″	60	66	300	195
2.1/2″	63	69	315	208
2.5/8″	66	72	330	218
2.3/4″	70	76	350	226
2.7/8″	72	78	365	234
3″	76	82	380	245
3.1/8″	79	85	395	258
3.1/4″	83	89	415	268
3.3/8″	86	92	430	275
3.1/2″	89	95	445	285
3.5/8″	92	98	460	295
3.3/4″	95	101	475	305
3.7/8″	98	104	490	316
4″	102	108	510	328

4.1/8″	105	111	525	340
4.1/4″	108	114	540	350
4.1/2″	114	120	570	360
4.3/4″	121	127	605	390
5″	127	133	635	412
5.1/8″	130	136	650	422
5.1/2″	140	146	700	455
6″	152	158	760	495
6.1/2″	165	171	825	535
7″	178	184	890	575
8″	203	209	1015	660
9″	229	235	1145	740
10″	250	256	1250	825
11″	279	285	1395	905
12″	305	311	1525	985

CONSTRUCTION

Galvanised Steel Interlock Tubing Construction

Galvanised Steel Copper Packed Interlock is manufactured from deep drawing quality carbon steel to BS.1449 galvanised.

Profiled metal strip is wound into a tube with the edges completely interfolded to create the interlocked construction.

The section is supplied with wire packing as standard, with cotton or rubber packing also available on request.

The resulting construction provides a flexible metal tube with high crush resistance, great mechanical strength and increased gas tightness.

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APPLICATIONS

Galvanised Steel Copper Packed Interlock Applications

Galvanised Steel Copper Packed Interlock is particularly suitable for applications requiring a flexible but relatively stiff metal tube with increased gas tightness.

The tubing is ideal for absorbing vibration, accommodating thermal expansion and providing noise attenuation on engine exhaust systems.

Typical applications include:

- **Engine Exhausts** – suitable for absorbing vibration, thermal expansion and providing noise attenuation on engine exhaust systems
- **Ducting & Extraction** – suitable for flexible ducting and extraction applications
- **Material Handling** – suitable for conveying a variety of dry bulk materials
- **Dry Bulk Goods** – commonly used for conveying dry bulk products
- **Grain** – suitable for conveying grain
- **Dry Powders** – suitable for conveying dry powdered materials
- **Granular Products** – suitable for conveying granular products of various types
- **Protective Casings** – suitable for protective casing applications
- **Stayput Applications** – suitable where a stiffer metal hose with stayput characteristics is required

The maximum operating temperature for Copper Packed Interlock is **+500°C**.

Please note the diameters listed below are all **inside diameters. Please check this before ordering.*

Manufacturing tolerances – All metallic tubing is manufactured to ID sizes, tolerances are + 0.5mm, – 0.0mm – up to 76mm ID, + 1.0mm, – 0.0mm – anything over 76mm ID

NON-STANDARD LENGTHS

Order non-standard lengths here

FAQS

Frequently Asked Questions About Galvanised Steel Copper Packed Interlock

What is Galvanised Steel Copper Packed Interlock?

Galvanised Steel Copper Packed Interlock is a flexible metal tube manufactured from profiled galvanised steel strip. The strip is wound into a tube with its edges completely interfolded to create a fully interlocked construction with wire packing.

What packing is used in Copper Packed Interlock?

Copper wire packing is used as standard. Cotton or rubber packing can also be supplied on request.

What are the benefits of the packed interlock construction?

The construction provides flexibility, high crush resistance and great mechanical strength. The packing creates a stiffer tube with

increased gas tightness and stayput characteristics.

What is Galvanised Steel Copper Packed Interlock used for?

Typical applications include ducting and extraction, exhausts, material handling and protective casings. It is also commonly used for conveying dry bulk goods, grain, dry powders and granular products.

Is Copper Packed Interlock suitable for engine exhausts?

Yes. Interlock tubing is ideal for absorbing vibration, accommodating thermal expansion and providing noise attenuation on engine exhaust systems.

What is the maximum operating temperature?

The maximum operating temperature of Galvanised Steel Copper Packed Interlock is +500°C.

What sizes are available?

The standard technical data covers internal diameters from 20mm to 305mm. Whitehouse can also manufacture intermediary sizes where required.

Are the listed dimensions internal or external diameters?

All of the listed tubing diameters are inside diameters (ID).

Can non-standard lengths be supplied?

Yes. Non-standard lengths can be ordered to suit individual requirements.

What are the manufacturing tolerances?

For tubing up to and including 76mm ID, the manufacturing tolerance is +0.5mm / -0.0mm. For tubing over 76mm ID, the tolerance is +1.0mm / -0.0mm.