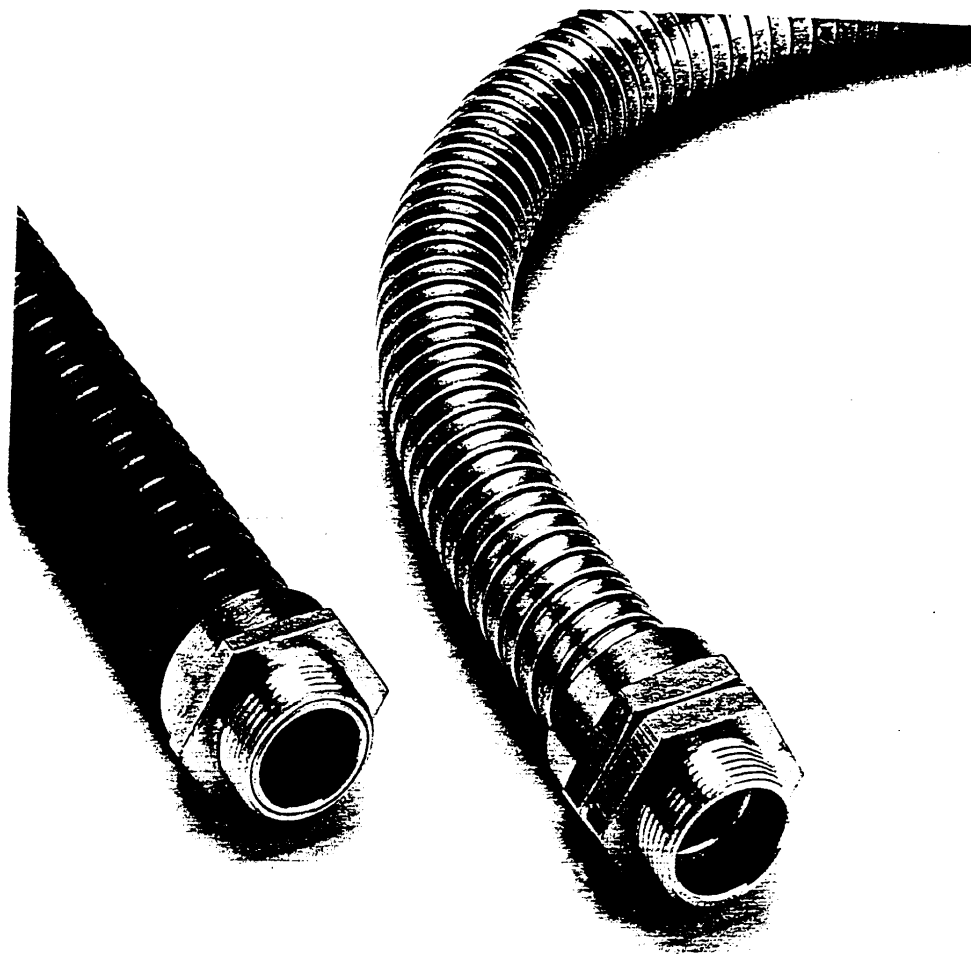


450 365 7 648

BETAFLEX® 3 METALLIC FLEXIBLE CONDUIT



BETAFLEX®

GS

UP TO 300°C

GSP

PVC COATED GALVANISED STEEL

SWIVEL FITTINGS & FIXED FITTINGS

SAME STANDARD FITTING FOR GS & GSP

See page 36 for Betaflex 1, 2 & 3 Application Guide.

Service temperature range:
-50°C to +300°C.

Service temperature range:
-20°C to +70°C.

BETAFLEX® 3 GS FLEXIBLE

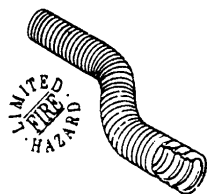
- ▶ Galvanised steel
- ▶ Highly flexible
- ▶ Crush resistant
- ▶ All metal construction - no fumes
- ▶ Utilises same fittings as Betaflex 3 GSP
- ▶ Cut lengths available on request

Spirally rolled metal conduit with interlocking profile. This particular conduit is suitable for commercial buildings i.e. offices and factories, under floor wiring, machine tool connection and general cable connections. Both Betaflex 3 GS and GSP share the same fittings.

BETAFLEX® 3 GSP FLEXIBLE

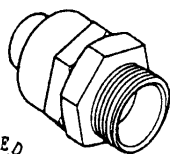
- ▶ PVC coated galvanised steel
- ▶ Highly flexible
- ▶ Crush resistant
- ▶ Conduit weather proof to IP 67
- ▶ Utilises same fittings as Betaflex 3 GS
- ▶ Wide chemical resistance
- ▶ Cut lengths available on request

PVC coated spirally rolled metal conduit with interlocking profile. This particular conduit is suitable for electrical cable protection for most industrial applications, machine tool connections and applications where some degree of moisture resistance is required. Both Betaflex 3 GSP and GS share the same fittings.



LIMITED
EXPOSED
HAZARD

BETAFLEX® 3 METALLIC FLEXIBLE CONDUIT

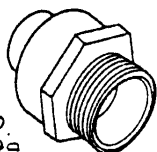


LIMITED
FIRE
HAZARD

BETAFLEX® 3 SWIVEL FITTINGS

- Highly durable nickel plated brass construction
- One-piece adaptor for both GS and GSP

This one-piece fitting with metric thread saves installation time. It locks securely into the conduit whilst allowing the body and thread to swivel. It is suitable for use with either GS or GSP conduit.

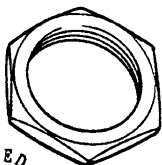


LIMITED
FIRE
HAZARD

BETAFLEX® 3 FIXED FITTINGS

- One-piece adaptor for both GS and GSP
- Highly durable nickel plated brass construction

This one-piece fixed adaptor with metric thread provides easy and time-saving installation. As with the swivel fitting it is suitable for both GS and GSP conduit.

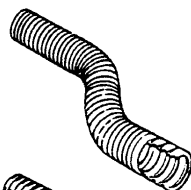


LIMITED
FIRE
HAZARD

BETAFLEX® 3 LOCK-NUTS

- Brass material
- Sizes 12-50mm
- Facilitates the securing of the fitting

Manufactured from brass, this lock-nut is suitable for use with the GS and GSP swivel and fixed fittings.



GS AND GSP – TYPICAL APPLICATIONS

GS AND GSP

- Additional armouring for hydraulic lines
- Additional armouring for air lines
- Studio lighting
- Additional electrical screening for computer wiring etc

GS ONLY

- Metallic trunking, flying leads etc
- Industrial heating and ventilation equipment
- Glass process machinery >120°C
- Underfloor wiring
- Commercial ovens and furnace equipment temperature >120°C
- Underground applications, for halogen free environments
- Boiler rooms >120°C applications
- Foundry spark protection up to 300°C

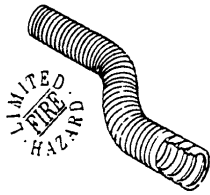
GSP ONLY

- Security applications, video cameras – anti-vandal capability
- Machine tools – lathes, wood work machinery, metal press machines
- Lighting sets, flood lighting
- Ideal protection for wiring in or under portable buildings

BETAFLEX® 3 METALLIC FLEXIBLE CONDUIT continued on next page



BETAFLEX® 3 METALLIC FLEXIBLE CONDUIT



BETAFLEX® 3 GS CONDUIT

Conduit size Nominal OD mm	OD mm	ID mm	Packed m	Colour	Order code
12	12.0	10.0	10	Metallic	25401210
			25	Metallic	25401225
			50	Metallic	25401250
16	16.0	13.0	10	Metallic	25401610
			25	Metallic	25401625
			50	Metallic	25401650
20	20.5	17.0	10	Metallic	25402010
			25	Metallic	25402025
			50	Metallic	25402050
25	25.0	21.0	10	Metallic	25402510
			25	Metallic	25402525
			50	Metallic	25402550
32	32.0	28.5	10	Metallic	25403210
			25	Metallic	25403225
40	41.5	37.5	10	Metallic	25404010
			25	Metallic	25404025
50	53.0	48.5	10	Metallic	25405010
			25	Metallic	25405025

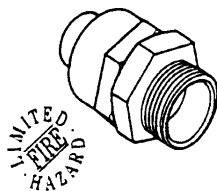
BETAFLEX® 3 GSP CONDUIT

Conduit size Nominal OD mm	OD mm	ID mm	Packed m	Colour	Order code
12	14.0	10.0	10	Black	25411210
			25	Black	25411225
			50	Black	25411250
16	17.0	13.0	10	Black	25411610
			25	Black	25411625
			50	Black	25411650
20	21.5	17.0	10	Black	25412010
			25	Black	25412025
			50	Black	25412050
25	26.0	21.0	10	Black	25412510
			25	Black	25412525
			50	Black	25412550
32	34.0	28.5	10	Black	25413210
			25	Black	25413225
40	43.5	37.5	10	Black	25414010
			25	Black	25414025
50	56.0	48.5	10	Black	25415010
			25	Black	25415025

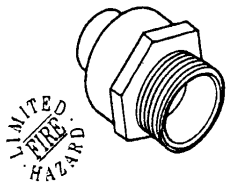
BETAFLEX® 3 SWIVEL FITTINGS

Conduit size OD mm	Thread size mm	Packed	Order code
12	16 x 1.5	50	25421200
16	16 x 1.5	50	25421600
20	20 x 1.5	25	25422000
25	25 x 1.5	25	25422500
32	32 x 1.5	10	25423200
40	40 x 1.5	10	25424000
50	50 x 1.5	5	25425000

MATERIAL
Nickel plated brass.



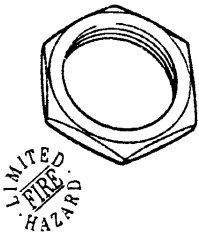
BETAFLEX® 3 METALLIC FLEXIBLE CONDUIT



BETAFLEX® 3 FIXED FITTINGS

Conduit size OD mm	Thread size mm	Packed	Order code
12	16 x 1.5	50	25441200
16	16 x 1.5	50	25441600
20	20 x 1.5	25	25442000
25	25 x 1.5	25	25442500
32	32 x 1.5	10	25443200
40	40 x 1.5	10	25444000
50	50 x 1.5	5	25445000

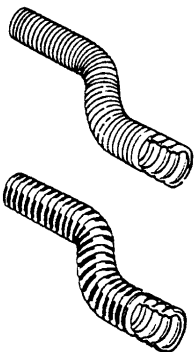
MATERIAL
Nickel plated brass.



LOCK-NUTS

Conduit size OD mm	Thread size mm	Packed	Order code
12/16	16 x 1.5	50	25331600
20	20 x 1.5	50	25332000
25	25 x 1.5	25	25332500
32	32 x 1.5	25	25333200
40	40 x 1.5	25	25334000
50	50 x 1.5	10	25335000

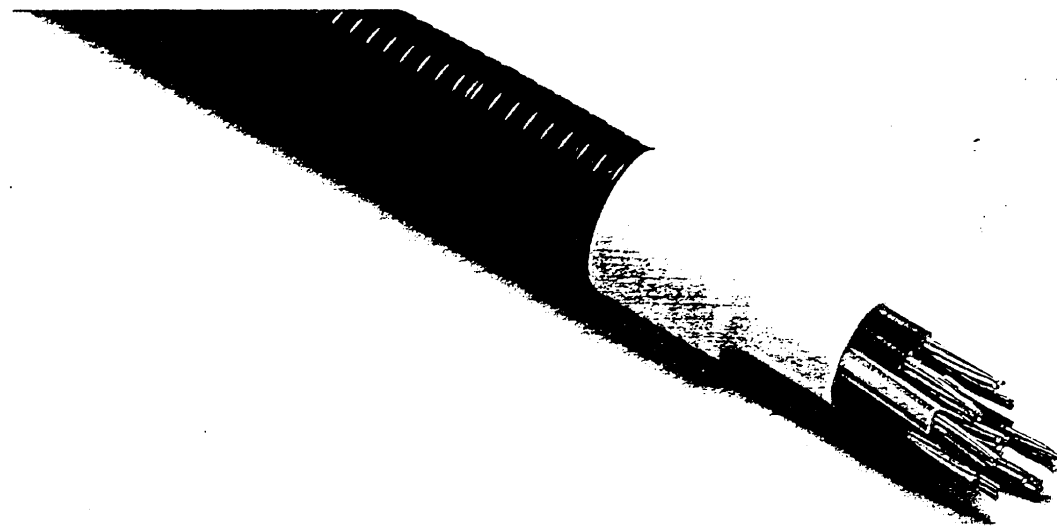
MATERIAL
Brass.



CHEMICAL RESISTANCE OF BETAFLEX® 3

Chemicals	Concentration %	At temp °C	Flexible PVC ✓ = resistant
Acetic acid	10	20	✓
Alum, hydrous	dilute	40	✓
Aluminium chloride, hydrous	dilute	40	✓
Aluminium sulphate, hydrous	dilute	40	✓
Ammonia solution	any	20	✓
Ammonium chloride, hydrous	any	60	✓
Ammonium nitrate, hydrous	dilute	40	✓
Ammonium sulphate, hydrous	dilute	40	✓
Aniline hydrochloride, hydrous	saturated	20	✓
Benzoic acid	any	40	✓
Bleaching liquor	12.5cl	20	✓
Borax, hydrous	dilute	40	✓
Boric acid	dilute	40	✓
Calcium chloride, hydrous	any	40	✓
Calcium nitrate, hydrous	50	40	✓
Carbamide, hydrous	10	40	✓
Carbon monoxide	100	50	✓
Carbonic acid	100	60	✓
Chrome alum, hydrous	dilute	40	✓
Copper monochloride, hydrous	saturated	20	✓
Copper sulphate, hydrous	any	40	✓
Developer agent		40	✓
Ethyl alcohol, hydrous	10	20	✓
Ferric cyanide, hydrous	any	60	✓
Ferrous chloride, hydrous	10	40	✓
Formaldehyde, hydrous	dilute	40	✓
Glucose, hydrous	any	20	✓
Hydrobromic acid, hydrous	10	40	✓
Hydrochloric acid, hydrous	10	20	✓
Hydrogen	100	50	✓
Hydroxylamine sulphate, hydrous	12	35	✓
Lactic acid, hydrous	50	20	✓
Magnesium carbonate	any	20	✓
Magnesium chloride, hydrous	any	20	✓
Mercury		60	✓
Nickel chloride, hydrous	any	20	✓
Nickel sulphate, hydrous	any	20	✓
Nitric acid, hydrous	6	20	✓
Phosphoric acid, hydrous	dilute	20	✓
Sulphuric acid	10	20	✓

BETASHRINK® HEAT SHRINKABLE PRODUCTS



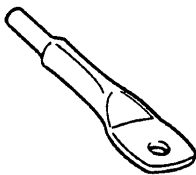
BETASHRINK® TYPE SG HEAT SHRINKABLE POLYOLEFIN SLEEVING STANDARD GRADE

- Material - General Purpose Industrial irradiated flame retarded flexible polyolefin
- Self extinguishing
- Service temperature range -55°C to +125°C
- Minimum shrink temperature 120°C
- Available on reels or cut lengths
- Standard colours - black, white, red, blue and yellow
- Shrink ratio 2:1



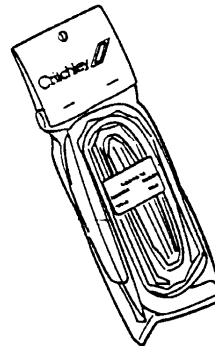
BETASHRINK® TYPE MG HEAT SHRINKABLE POLYOLEFIN SLEEVING MILITARY GRADE

- Material - flame resistant military grade irradiated polyolefin
- Meets Military specification/ approvals MIL-I-23053/5 Class 1 and 3, UL 224 125°C
- Flammability to UL-224/VW-1
- Service temperature range -55°C to +135°C
- Minimum shrink temperature 90°C
- Available in cut lengths of 1.2m
- Standard colours - black, clear, red, blue, yellow
- Shrink ratio 2:1



BETASHRINK® TYPE ZH (THICK WALL) & ZHTW (THIN WALL) HEAT SHRINKABLE POLYOLEFIN SLEEVING ZERO HALOGEN GRADE

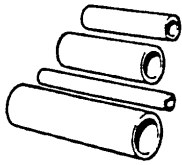
- Material - flame retarded zero halogen polyolefin
- Ideal for use in confined areas where human life or electronic components could be at risk
- Service temperature range: -40°C to +105°C
- Minimum shrink temperature: 120°C
- 2:1 shrink ratio
- Standard colour - black
- Available in packs of 1.2m lengths
- Meets specification DEFSTAN 59-97, Issue 3, Type 3 (Type ZH only), BS3G138 Part 3, Type 15 (Type ZH only)



BETASHRINK® HSP POLYOLEFIN HEATSHRINK PACK- MIXED COLOUR

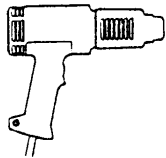
- Material - Standard grade 2:1 shrink polyolefin
- Convenient size packs for short length applications
- Cost effective
- A range of colours in each pack

BETASHRINK® HEAT SHRINKABLE PRODUCTS



BETASHRINK® TYPE MW HEAT SHRINKABLE POLYOLEFIN SLEEVING MEDIUM WALL GRADE

- Material - self-sealing semi-rigid polyolefin sleeving
- Offers electrical insulation coupled with excellent mechanical protection
- High resistance to abrasion, chemicals and corrosion
- Service temperature range -55°C to +125°C
- Minimum shrink temperature 120°C
- Supplied in 1,200mm lengths but can be cut into shorter sleeve lengths
- Excellent weatherability
- Standard colour black
- Shrink ratio 3:1



HOT AIR GUN

- Primarily for shrinkage
- Light, easy to use
- Additional reducing nozzles available
- Available as 240 or 110V model

WARNING

The gun must not be used as a hair dryer or in explosive or combustible atmospheres. Should not be used in wet conditions.

TEMPERATURE SETTINGS

Position 1 300°C.
Position 2 525°C.

AIRFLOW SETTINGS

Position 1 240 litres/min.
Position 2 450 litres/min.

VOLTAGE

240 volts/110 volts.

OUTPUT

1500 watts.

WEIGHT

550g.

BETASHRINK® HEAT SHRINKABLE PRODUCTS continued on next page

