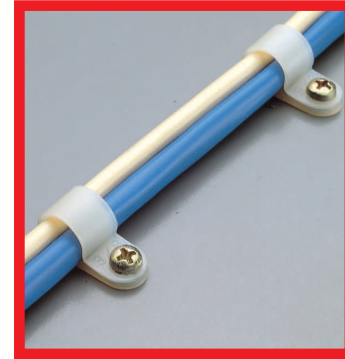


P Clips

CABRICAL's "P" Clips provide an economical and secure way to mount cables and looms to just about anything. The cable, loom etc. is simply slipped into the clip and then the clip can be screwed or bolted to walls, cabinets etc. They are made from Nylon 66 and are very durable in most applications. The edges are radiused to stop the clip damaging the cable. Available in black or natural.

- Material: Nylon 66 94V-2 UL approved
- Colour: Black or natural
- Operating temperature: -40°C to 90°C

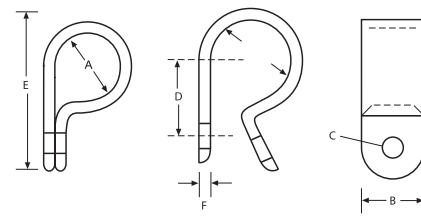


Dimensions (mm)

Catalogue No.	Max Cable Dia. A	Width B	Mount C	D	E	F	Std Pack
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Black Range

NCP0	3.2	9.6	4.6	9.5	19.8	1.4	100
NCP0.5	4.8	9.6	4.6	10.5	19.8	1.4	100
NCP1	6.4	10	4.6	10.0	20.0	1.4	100
NCP1.5	7.9	10	4.6	12.0	22.0	1.5	100
NCP2	9.5	12	4.6	15.2	24.0	1.5	100
NCP3	12.7	12	4.6	15.2	31.0	1.5	100
NCP4	15.8	12	4.6	18.2	34.3	1.5	50
NCP5	19.4	12	4.6	18.2	35.0	1.5	25
NCP6	25.4	12	4.6	22.0	43.0	1.8	25



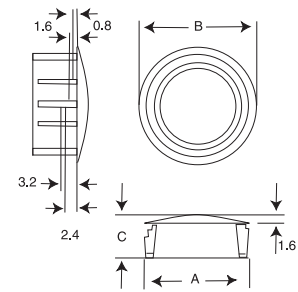
Nylon Plugs - Snap In

Handy snap in Nylon Plugs that snap into a hole in a panel or chassis 0.8 to 3.2mm thick.

- Material: Nylon 66 UL, 94 V-2
- Colour: Black

Dimensions (mm)

Catalogue No.	Hole Size A	Chassis Thickness	Outer Dia. B	Height C	Pack Size
NP5	4.5	0.8 to 3.2	6.3	5.9	100
NP8	7.8		11.9	8.0	100
NP10	9.5		13.0	10.5	100
NP13	12.7		16.9	10.5	100
NP16	15.9		19.8	10.5	100
NP19	19		22.9	10.5	100
NP22	22.2		24.9	11.3	100
NP25	25.0		28.3	11.5	100
NP30	30.0		34.2	11.5	100
NP45	45.0		49.1	11.1	100



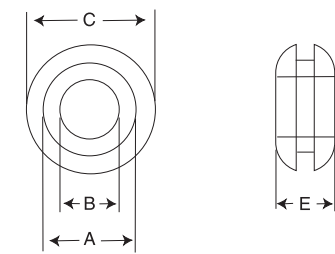
Flexible Rubber Grommets

Flexible Rubber Grommets, for protecting wires from sharp corners in panel and chassis holes.

- Material: Rubber
- Colour: Black

Dimensions (mm)

Catalogue No.	Hole Size A	Chassis Thickness	Inner Dia. B	Outer Dia. C	Height E	Pack Size
RGM6	6.0	1.7	3.0	8.3	4.7	100
RGM7	7.2	1.7	5.0	10.2	4.4	100
RGM10	10.0	1.7	6.4	13.3	6.3	100
RGM20	20.0	1.7	15.5	23.7	6.1	100
RGM25	25.0	1.5	18.9	29.9	7.2	100
RGM32	32.0	1.5	25.0	38.1	7.8	100



Strain Relief Bushings (Grommets) - for Power Cords

CABRICAL's Strain Relief Bushings are designed to clamp around a cord and then are inserted into a straight sided panel hole, using an SRBTOOL.

Dimensions (mm)

Catalogue No.	Suitable for Cord Style	Cable O.D	Panel Hole A	Flat Dia B	Max Thick F	Length D	Pack Size
SR-5R1	Light Duty	6.2 - 7.4	12.7	11.5	0.5-1.6	11	100
SR-5R2	Flexible Cables	6.2 - 7.4	12.7	11.5	1.8-2.5	11	100
SR-6W2		7.6	12.7	11.8	1.8-2.3	11	100



Insulation Tape

CABRICAL's Insulation Tape is a high quality product, that maintains it's elasticity and adhesion in the long term. The tape is made of PVC and as such is resistant to acid, alkali, solvents, cold, and is flame retardant. This tape can be used for basic insulation, as well as harnessing and general wire wrapping. The tape is supplied in rolls of 10.

ITBK/10	Black pack of 10 rolls
ITRD/10	Red pack of 10 rolls
ITWH/10	White pack of 10 rolls
ITBL/10	Blue pack of 10 rolls
ITYL/10	Yellow pack of 10 rolls
ITYG/10	Yellow pack of 10 rolls

Nitto 21 PVC Electrical Insulation Tape

Highly flexible with dependable resistance against temperature changes, ranging from -80°C. When the tape is wound up over the electric cables, or similar objects, flagging never occurs. Standard colours are Black, Red, White, Blue, Yellow and Green.



N21S

S=Colour

Property	Test Result
Thickness	0.2 mm
Width	18 mm
Length	20 m
Tensile Strength	20 lbs/in.w.
Elongation	200%
Adhesion to steel	20 oz/in.w.
Adhesion to backing	20 oz/in.w.
Dielectric strength	10,000 volts
Volume resistivity	Over 106 megohms

Technical Data

Nominal reel dimensions	20m long, 18mm wide
Tape backing	PVC
Adhesive	Rubber based
Thickness	0.18mm
Adhesion	1.8N/cm2
Tensile strength	28N/cm2
Elongation	160%
Breakdown voltage	8kV

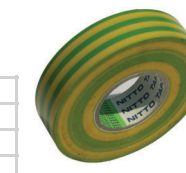


Nitto 203

Only Available in Green/Yellow Stripe.

N203GYS

Property	Test Result
Thickness	0.18 mm
Width	18 mm
Length	20 m
Tensile Strength	7.5 kg/19mm
Elongation	215%
Adhesion to steel	325g/19mm
Adhesion to backing	390g/19mm
Dielectric strength	10.5KV
Volume resistivity	1 x 1014/cm



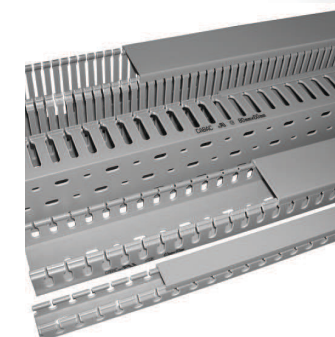
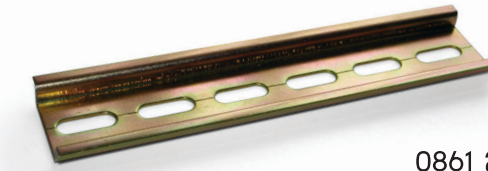
Spacer Bar Saddles

Code	Size (mm)
SAD20	20
SAD25	25
SAD32	32
SAD40	40
SAD50	50



Din Rail

Code	Type	Din	Thickness (mm)	Height (mm)
TS35	Yellow Passivated un-slotted	35	1.0	7.3
TS35S	Yellow Passivated slotted	35	1.0	7.3
TS35Sw	White Passivated slotted	35	1.0	7.3



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Sandton

Cable Ties, Harness Accessories & Tapes



Cable Ties - Nylon Polyamide 66

Halogen Free

Our ties meet most basic cable tie needs, with choices covering a wide range of requirements for size and strength. One-piece, injection moulded construction provides maximum strength and adjustability for securing all sizes of bundles. Extra features such as rounded edges and bent-tip design make installation easy, fast, accurate and secure. Installation tools are not required but are suggested where controlled, uniform tension and cut-off applications are desired.

Split mandrel, loop tensile strength tests show that the most vulnerable stress point for a nylon cable tie is its pawl. There is a trade-off between insertion/pull-up ease and strength of a cable tie. The stronger the pawl, the more force is required to insert and pull up the strap as it engages the pawl teeth. Cable ties are designed to optimise insertion ease and still meet or exceed all applicable strength requirements. This magnified cross section illustrates our full four-tooth locking engagement between strap and pawl under load. This intimate contact between pawl and strap teeth, ensures that the strength of the pawl is fully utilised. Installations under conditions of full tropical sun and/or very low relative humidity, must be referred to CABRICAL's design engineers for evaluation and recommendations.

Exterior applications should use black (U.V. stabilised) ties.

Technical Data

Conformant Standards
UL; Mil Spec; IEC; VDE; DIN

Refer
MS 3367 MS 3368-physical dimensions
Mil-S-23190E - testing
Mil-Std-105D - sampling
Mil-C-45662 - test equipment calibration
Mil-1-45208A - QC manual and systems

Smoke Emission
Low smoke / Halogen free

Material
NATURAL - Nylon 66 with additives
BLACK - Nylon 66 with UV stabilisers

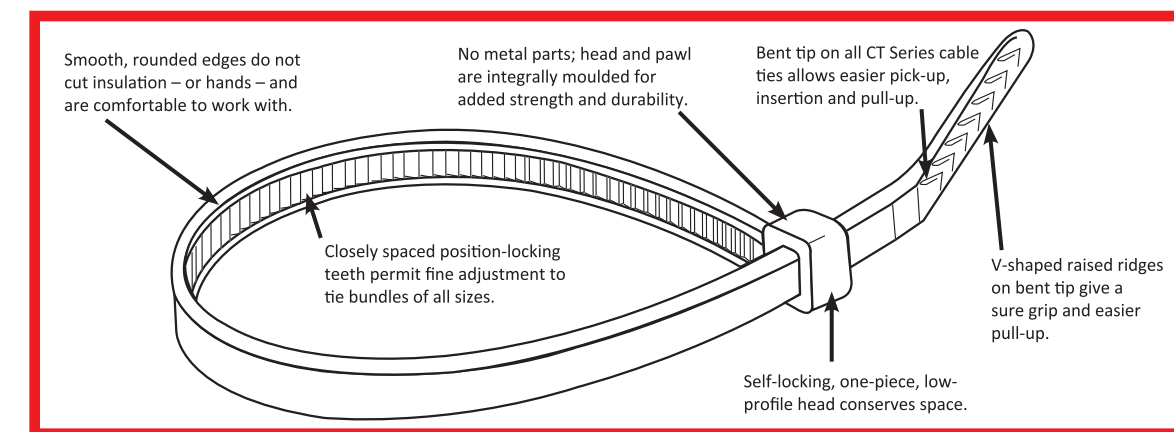
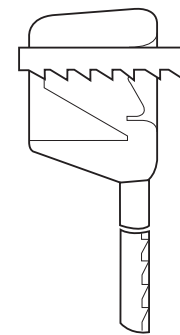
Material Tensile Strength
80 N/mm² or 11200 psi

Electrical data
Breakdown voltage 20 kV/mm
Volume resistivity 2 x 10¹⁰ ohm cm
Moisture content 2.5% w.w. @ 23%/50%RH

Operating Temperature
-40°C to 85°C

Flammability
Passed - U.L. 94V-2

UV Stability
Exceeds ASTM-D-4066 with 2.5% carbon black giving nominal 15 years normal exposure to UV with less than 10% yield in tensile strength.



Cable Ties - Nylon - Halogen Free

Catalogue No. Black (UV Rated)	Catalogue No. Neutral (kg)	Loop Tensile Strength	Bundle Diameter (mm)	Length (mm)	Width (mm)	Thickness (mm)	Packs Available
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Standard Duty Ties

CT98BK	CT98NT	8	22	100	2.5	1.1	100/1000
CT140BK	CT140NT	18	3	140	3.6	1.2	100/1000
CT200BK	CT200NT	22	50	200	4.8	1.3	100/1000
CT290BK	CT290NT	22	76	300	4.8	1.4	100/1000
CT360BK	CT360NT	22	102	370	4.8	1.4	100/1000

Heavy Duty Ties

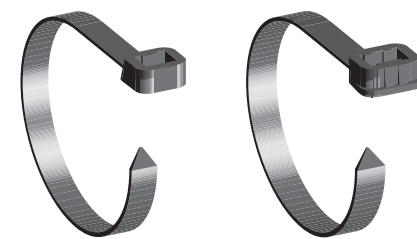
CT203BK-HD	CT203NT-HD	54	50	200	7.6	2.1	100
CT365BK-HD	CT365NT-HD	54	102	370	7.6	2.1	100

Ultra Heavy Duty Ties

CT600BK-UHD		114	152	580	12.6	2.1	25
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Standard Duty Ties



Heavy Duty Ties Ultra Heavy Duty Ties

Cable Tie Tooling

KTT

Cable tie tensioning tool speeds up cable tie application. Ensures correct tension and provides automatic cut-off. Eliminates sharp edges on cut ties.

- Maximum tie width: 4.8mm
- Weight: 310g
- Length: 165mm



Stick-on Mounts

The SAM range of stick-on mounting bases are low profile and 4-way bases that stick onto virtually any surface. Simply peel the backing paper and stick onto any clean, dry, smooth, non-greasy surface. Standard and light duty ties insert and secure easily for all types of bundling needs. These stick-on mounts are not recommended for outdoor use.

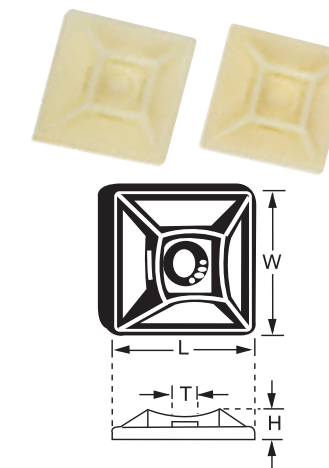
Catalogue No. Standard Pack	Catalogue No. Kit Pack	Base Dimension L & W	Height H	Dimensions (mm) Maximum Tie Width T	Standard Pack Quantity	Kit Pack Quantity
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Natural - Indoor Use

SAM19NT	SAM19NT/K	19.0 x 19.0	4.0	3.6	100	10
SAM25NT	SAM25NT/K	27.7 x 27.7	5.7	5.3	100	10

Black - UV Resistant

SAM19BK	SAM19BK/K	19.0 x 19.0	4.0	5.3	100	10
SAM25BK	SAM25BK/K	27.7 x 27.7	5.7	5.3	100	10



Braided Sleeving

CABRICAL's Braided Sleeving is an expandable flexible harness, manufactured from monofilament polyester. It's main characteristic consists in the construction of the braiding which allows the product to increase its interior diameter considerably and at the same time contracting in length. Wire harnessing is made easy due to the expandability and ease of insertion of different diameters within the same sleeving. Wires can also be poked through the sleeving at any point, to do harness breakouts.

- Mechanical and thermal protection of conductors
- Expandable
- Heat resistant
- Resistant to aggressive agents
- Easy to install
- Standard Colour - Black

Catalogue No.	Nominal ID (mm)	Min. ID (mm)	Max. ID (mm)	Standard Reel (m)
CEPB3BK	3	2	6	100
CEPB5BK	5	3	8	100
CEPB6BK	6	4	10	100
CEPB8BK	8	6	12	100
CEPB10BK	10	8	16	100
CEPB12BK	12	10	18	100
CEPB14BK	14	12	22	100
CEPB20BK	20	15	27	100
CEPB24BK	24	20	35	100

Technical Data

Material Polyester
Operating Temperature -50°C to 150°C
Expansion Ratio 1:2
Monofilament Diameter 0.22mm
Chemical Resistance Resistant to most aggressive chemicals



316 Stainless Steel Cable Ties

Stainless Steel Cable Ties - Standard Range*

CABRICAL's Stainless Steel Cable Ties are a quick, effective way of securing cables that are in a hostile environment. They have a unique ball bearing locking mechanism that allows the tie to be quickly and easily installed, but not undone. They install much quicker than traditional strapping systems. The heavy duty ties have an off-set tip to speed insertion of the tie. The ties are made from 316 non magnetic stainless steel.

- Ties are packed in sturdy cardboard boxes
- Typical uses are flame-proof installations, the chemical industry and long-term external exposure

Catalogue No.	Length Approx (mm)	Width Approx (mm)	Min. Loop Tensile Strength (kg)	Pack Quantity	Tooling
Standard Range					SSTTT2
CMBT127S	127	4.6	44	100	
CMBT200S	200	4.6	44	100	
CMBT360S	360	4.6	44	100	
CMBT520S	520	4.6	44	100	

Heavy Duty Range

Catalogue No.	Length (mm)	Width (mm)	Min. Loop Tensile Strength (kg)	Pack Quantity	Tooling
Heavy Duty Range					SSTTT2
CMBT200H	200	7.9	113	50	
CMBT360H	360	7.9	113	50	
CMBT520H	520	7.9	113	50	
CMBT680H	680	7.9	113	50	

Note: To protect cable from sharp edges on cable ties, CABRICAL have a PVC protective cover which is available in 30m reels. Part Number SSCHD.

*Available on request

Spiral Binding

CABRICAL's Spiral Binding is designed to wrap around bundles of wires to make neat looms and protect the conductors. Each Spiral Binding type accommodates a large range of diameters and allows break outs at any point. We offer two grades: natural for indoor use and black for UV resistant outdoor use. It is quick and easy to apply.

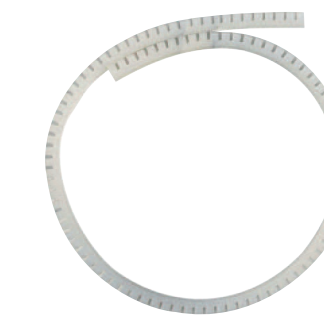
- Material: Low-density polyethylene
- Ultra-violet stability: Good - black only (black material has 2% carbon black)
- Maximum operating temperature: 70°C



Flexible Grommet

CABRICAL's Flexible Grommet protects cables against sharp edges and abrasion on panel holes. It is supplied in 2m rolls and can be cut to length. It snaps into place and fits circular or irregular shapes.

- Material: Polyethylene
- Colour: Natural
- Max. operating temperature: 90°C



Technical Data

Material Stainless Steel 316 grade
Tensile Strength 60 kg/mm²
Operating Temp -80°C to +500°C
Loop Tensile Strength Standard range 45kg
Heavy-duty range 110kg

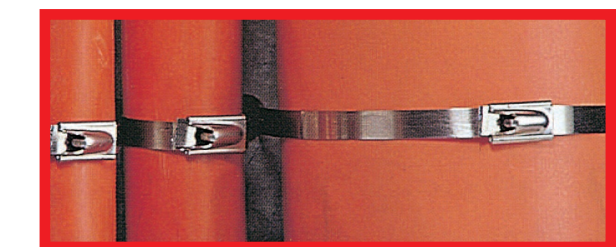
Resistance to Chemicals

High resistance to:

Petrol
Benzene
Alcohol
Acetone
Sodium hydroxide
Sodium phosphate
Formic acid
Acetic acid
Sulphuric acid
Seawater
In general very resistant to most hostile environments.



SSTTT2 - Robust Stainless Steel Tie Tensioner. Tensions and cuts in one operation.



Catalogue No. Box Pack	Length (m)	Smallest Diameter (mm)	Largest Diameter (mm)
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CSB3NT	30	3	9
CSB6NT	30	5	12
CSB12NT	30	12	20
CSB20NT	30	20	100

Black - UV Resistant - Outdoor Use

CSB3BK	30	3	9
CSB6BK	30	5	12
CSB12BK	30	12	20
CSB20BK	30	20	100

Catalogue No.	Dim (m)	Accommodates Panel Thickness (mm)	Standard Pack (m)
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FSGS-010	1.0	Under 1.0 mm	10
FSGS-016	1.6	1.0-1.6	10
FSGS-020	2.0	1.6-2.0	10
FSGS-024	2.4	2.0-2.4	10
FSGS-032	3.2	2.4-3.2	10
FSGS-045	4.5	3.2-4.5	10