



CARROLL

A BRADY BUSINESS  BRADY



Electrical Components & Accessories Catalogue

TERMINATION | CONNECTION | PROTECTION | BUNDLING
IDENTIFICATION | HARDWARE | TOOLING | KITS

2015

carroll.com.au



A TRADITION OF QUALITY

For over 35 years Carroll has focused on supplying premium electrical accessories and pre-printed wire identification solutions to a diverse range of market segments. Our product line is a complete program for terminating, connecting, bundling, protecting and identifying electrical circuits, supplied in accordance with the ISO 9001 quality standard.

DEVELOPING A VISION

The Carroll development team is always looking at tomorrow's needs, anticipating new product application requirements and partnering with quality manufacturers around the globe. Our ultimate goal is to be preferred supplier to other quality organisations who share a progressive outlook.

OUR CUSTOMERS

Carroll customers come from a diverse cross section of industry. Our products reliably perform everyday in many stringent and hazardous environments including: Infrastructure, power stations, rail and mass transit, aerospace, airports, mining, agricultural, trucks, buses, cars, food, smelters, refineries and petrochemical plants.

OUR PEOPLE

The entire Carroll team share the common goal of delivering exceptional customer service. This is delivered by our professionals from customer service, sales, marketing, supply chain and a state-of-the-art order despatch process from both our Sydney and Perth locations.

OUR SERVICE GUARANTEE

Orders received before 4.30pm (Sydney time) are despatched same day, if the product is available in stock. Our pre-printed wire identification service will always be delivered with care, accuracy and speed. Markfast orders received by 12PM (Sydney time) will be despatched that day, large orders may vary.



CARROLL

A BRADY BUSINESS  BRADY

TERMINATION

5–30

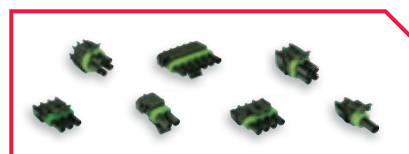
Pre-Insulated & Uninsulated Terminals, Boot Lace Ferrules, Copper Lugs & Links, Battery Terminals & Accessories



CONNECTION

31–48

Amphenol, Multipin, AMP, Weatherpack, Fuel Injectors, Relay Connectors, Screw Connectors, Terminal Strips, Solder Sleeve Devices



PROTECTION

49–68

Heat Shrink Products, Bushings, Cable Glands, Harnessflex Conduit & Fittings, Fuses & Holders, Circuit Breakers, Diodes



BUNDLING

69–80

Nylon/Steel Cable Ties & Accessories, Cable Clamps, Girder Clips, Spiroll Wrapping, Quikflex, Loom Tube, Slotted Wiring Duct, Din Rail



IDENTIFICATION

81–86

CarrollPlate, Markfast Laser Trees, Kmark, Steelmark Laser Tags & Laser Etching, Steelmark DIY



HARDWARE & INSTALLATION

87–88

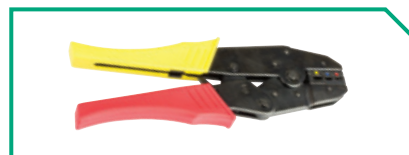
Industrial Screws, Drill Bits, Solder Products



TOOLING

89–94

Hand Crimping Tools, Hydraulic Tools, Battery Powered Tools, Cable Cutters & Strippers, Harnessflex Tools, Amphenol Tools, Weather Pack Tools, Cable Tie Tools, Storage Boxes



KITS

95–97

Pre-insulated Terminal Kits, Copper Lug Kits, Connector Kits, Fuse Kits



CARROLL WEBSITE & ONLINE ORDERING

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TERMINATION

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PRE-INSULATED TERMINALS

CONDUCTOR
0.5–1.65mm²

RED



SCREW SIZE
COPPER GRIP
VINYL GRIP
UNINSULATED

3mm
RRC1-3

3.5mm
RC1-3.5
RV1-3.5
R1-3.5

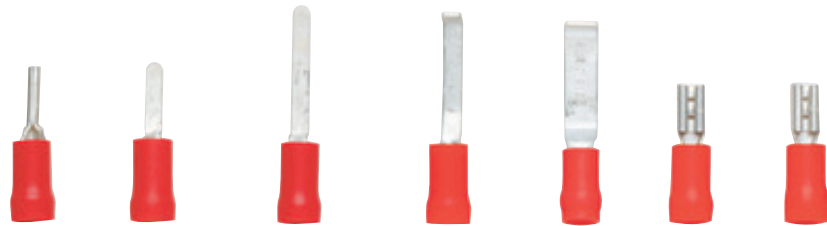
4mm
RC1-4B
RV1-4
R1-4

5mm
RC1-5
RV1-5
R1-5

6mm
RC1-6
RV1-6
R1-6

8mm
RC1-8
RV1-8

10mm
RC1-10
RV1-10



WIDTH/TYPE
COPPER GRIP
VINYL GRIP

WIRE PIN
WPC1
WPV1

FLAT BLADE
FBC1-2.3

FLAT BLADE
FBC1-2.3L

LIP BLADE
LBC1-3

LIP BLADE
LBC1-5

2.8 x .5tab
QCF1-3/5

2.8 x .8tab
QCF1-3/8

CONDUCTOR
1.04–2.63mm²

BLUE



SCREW SIZE
COPPER GRIP
VINYL GRIP
UNINSULATED

3mm
RC2-3
RV2-3
R2-3

3.5mm
RC2-3.5
RV2-3.5

4mm
RC2-4B
RV2-4
R2-4

5mm
RC2-5
RV2-5
R2-5

6mm
RC2-6
RV2-6
R2-6

8mm
RC2-8
RV2-8
R2-8

10mm
RC2-10
RV2-10

12mm
RC2-12
RV2-12



WIDTH/TYPE
COPPER GRIP
VINYL GRIP

WIRE PIN
WPC2
WPV2

FLAT BLADE
FBC2-2.3

FLAT BLADE
FBC2-2.3L

LIP BLADE
LBC2-3

LIP BLADE
LBC2-5

2.8 x .5tab
QCF2-3/5

2.8 x .8tab
QCF2-3/8



WIDTH/TYPE
COPPER GRIP
VINYL GRIP

6.4mm
QCF2-6P

BULLET 5mm
BCM2-5

RECEPT, 5mm
BCF2-5

CONDUCTOR
0.5–1.65mm²

RED



SCREW SIZE
COPPER GRIP
VINYL GRIP
UNINSULATED

3.5mm
NARROW
SC1-3
SV1-3
S1-3

3.5mm
SC1-3.5
SV1-3.5
S1-3.5

4mm
SC1-4
SV1-4
S1-4

5mm
SC1-5
SV1-5
S1-5

BUTT SPLICE
BSC1
BSV1

NYLON BUTT
NBSC1

PARALLEL
SPLICE
PSV1

END SPLICE
ES1



WIDTH/TYPE
COPPER GRIP
VINYL GRIP

4.8mm
QCF1-5/5 (.5tab)

4.8mm
QCF1-5/8
(.8tab)

6.4mm
QCF1-6

4.8 x .5tab
QCF1-5F

6.4mm
QCF1-6F

QCF1-6F90

6.4mm
QCM1-6F
MALE TAB

6.4mm
QCM1-6
MALE TAB

6.4mm
QCF1-6P

BULLET
4mm
BCM1-4

RECEPT.
4mm
BCF1-4

CONDUCTOR
1.04–2.63mm²

BLUE



SCREW SIZE
COPPER GRIP
VINYL GRIP
UNINSULATED

3.5mm
SC2-3
SV2-3

3.5mm
SC2-3.5
SV2-3.5
S2-3.5

4mm
SC2-4
SV2-4
S2-4

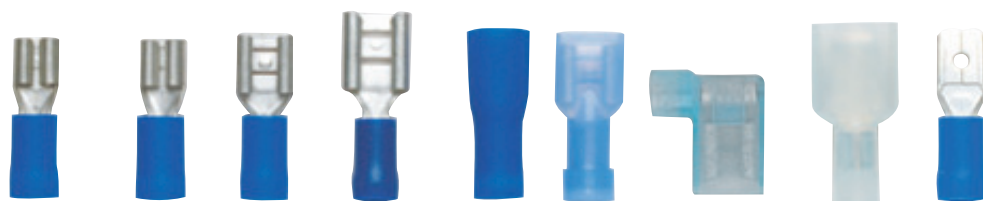
5mm
SC2-5
SV2-5
S2-5

BUTT SPLICE
BSC2
BSV2

NYLON BUTT
NBSC2

PARALLEL
SPLICE
PSV2

END SPLICE
ES2



WIDTH/TYPE
COPPER GRIP
VINYL GRIP

4.8mm
QCF2-5/5 (.5tab)

4.8mm
QCF2-5/8
(.8tab)

6.4mm
QCF2-6

8.0mm
QCF2-8

4.8 x .5/.8 tab
QCF2-5F/5
QCF2-5F/8

6.4mm
QCF2-6F

QCF2-6F90

6.4mm
QCM2-6F
MALE TAB

6.4mm
QCM2-6
MALE TAB

CONDUCTOR
2.63–6.64mm²

YELLOW



SCREW SIZE
COPPER GRIP
VINYL GRIP
UNINSULATED

3.5mm RC5-3.5 RV5-3.5	4mm RC5-4 RV5-4 R5-4	5mm RC5-5 RV5-5 R5-5	6mm RC5-6 RV5-6 R5-6	8mm RC5-8 RV5-8 R5-8	10mm RC5-10 RV5-10 R5-10	12mm RC5-12 RV5-12	3.5mm SC5-3.5 SV5-3.5
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WIDTH/TYPE
COPPER GRIP
VINYL GRIP

WIRE PIN WPC5 WPV5	FLAT BLADE FBC5-3	FLAT BLADE FBC5-5	LIP BLADE LBC5-5	6.4mm QCF5-6	9.5mm QCF5-9	6.4mm QCF5-6F	6.4mm QCM5-6
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HEAT SHRINKABLE

CONDUCTOR
0.5–1.65mm²

RED



SCREW SIZE

3.5mm RW1-3.5	4mm RW1-4	5mm RW1-5	6mm RW1-6	3.5mm SW1-3.5	4mm SW1-4	5mm SW1-5	6.4mm QWF1-6F
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CONDUCTOR
1.04–2.63mm²

BLUE



SCREW SIZE

3.5mm RW2-3.5	4mm RW2-4	5mm RW2-5	6mm RW2-6	8mm RW2-8	10mm RW2-10	3.5mm SW2-3.5	4mm SW2-4
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CONDUCTOR
2.63–6.64mm²

YELLOW



SCREW SIZE

4mm RW5-4	5mm RW5-5	6mm RW5-6	8mm RW5-8	10mm RW5-10	12mm RW5-12	5mm SW5-5
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CONDUCTOR
2.63–6.64mm²

YELLOW



SCREW SIZE
COPPER GRIP
VINYL GRIP
UNINSULATED

4mm
SC5-4
SV5-4

5mm
SC5-5
SV5-5
S5-5

6mm
SC5-6
SV5-6
S5-6

BUTT SPLICE
BSC5
BSV5

NYLON
BUTT
NBSC5

PARALLEL
SPLICE
PSV5

END SPLICE
ES5

WIDTH/TYPE
COPPER GRIP
VINYL GRIP



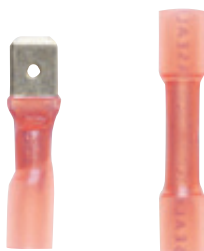
BULLET
BCM5-5



RECEPT.
BCF5-5

CONDUCTOR
0.5–1.65mm²

RED



SCREW SIZE

6.4mm
QWM1-6

BUTT
BSW1

CONDUCTOR
1.04–2.63mm²

BLUE



SCREW SIZE

5mm
SW2-5

6.4mm
QWF2-6F

6.4mm
QWM2-6

5mm
BWM2-5

5mm
BWF2-5

BUTT
BSW2

CONDUCTOR
2.63–6.64mm²

YELLOW



SCREW SIZE

6mm
SW5-6

6.4mm
QWF5-6F

6.4mm
QWM5-6F

BUTT
BSW5

TERMINALS

CARROLL terminals and splices have given many years of service providing testament to the quality and reliability of the design and manufacturing processes involved. **CARROLL** terminals are colour coded for different cable sizes allowing ease of identification and matching to the appropriate application tool. The wide range of Carroll terminals are readily available and ready to ship.

CONFIGURATIONS

CARROLL offers four basic configurations for each type of terminal and splice.

1. COPPER GRIP

Designed for complete and uniform reliability in the most difficult circuit environments. Each Copper Grip terminal consists of a basic copper plated body, a specially designed copper sleeve fitted over the terminal barrel and a bonded colour coded insulation sleeve.

2. VINYL GRIP

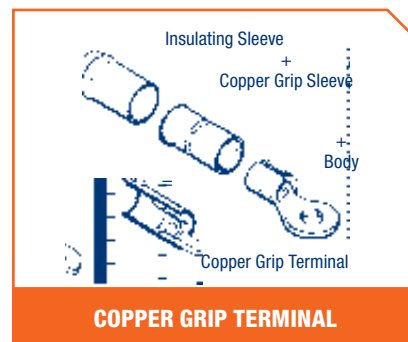
Vinyl Grip terminals and splices incorporate a hard, strong vinyl insulation sleeve. They provide complete reliability where the circuitry necessitates an insulated connection but operating conditions do not call for a permanent grip on the wire insulation.

3. UNINSULATED

Featuring short wire barrels, these terminals and splices are designed specifically for solid, stranded and irregularly shaped conductors. The termination is characterised by a "W" indent crimp, which locates the conductor in a central position making full surface area contact between the barrel and conductor.

4. HEAT SHRINKABLE

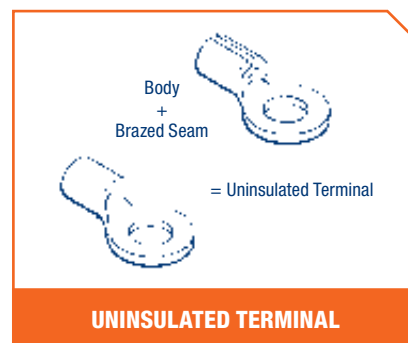
These specialised crimp terminals incorporate a colour coded, heat shrinkable, adhesive lined insulation. This provides a moisture-resistant seal to insulate and protect connections from environmental abuse, wire pullout, abrasion and contaminants.



COPPER GRIP TERMINAL



VINYL GRIP TERMINAL



UNINSULATED TERMINAL



HEAT SHRINKABLE TERMINAL

SIMPLIFIED ORDERING

Product part numbers are generic and easy to follow. The available configurations are listed by terminal type and are colour coded by wire size to eliminate errors in application.

TERMINAL TYPE					HEAT SHRINKABLE TERMINAL								
R	Ring	FB	Flat Blade	WP	Wire Pin								
S	Spade	NBS	Nylon Butt Splice	ES	End Splice								
BC	Bullet Connector	LB	Lip Blade	QC	Quick Connect								
PS	Parrallel Splice	BS	Butt Splice										
CONFIGURATION													
C	Copper Grip (Double)	V	Vinyl Grip (Single)	W	Heat Shrinkable								
						GENDER							
						F	Female	M	Male				
Q C F 1 - 6 F													
						VARIATION							
						F	Fully Insulated	/5	.5mm Tab Thickness				
						P	Piggy Back	/8	.8mm Tab Thickness				
								/12	12mm Pin Length				
CABLE SIZE													
1	Red	0.5–1.5mm ² or 22–16 AWG											
2	Blue	1.5–2.5mm ² or 16–14 AWG											
3	Yellow	2.5–6.0mm ² or 12–10 AWG											
						STUD, TAB OR BLADE WIDTH							
						3	3.2mm	4	4.2mm	6	6.4mm	10	10.5mm
						3.5	3.7mm	5	5.3mm	8	8.5mm	12	13mm

PRE-INSULATED RING TERMINALS

CODE	PART NO.	WIRE SIZE mm ²	COLOUR	STUD SIZE mm	PACK QTY
T	RC1-3	0.5-1.5	RED	3.2	100
	RC1-3.5	0.5-1.5	RED	3.7	100
	RV1-3.5	0.5-1.5	RED	3.7	100
	RC1-4B	0.5-1.5	RED	4.2	100
	RV1-4	0.5-1.5	RED	4.2	100
	RC1-5	0.5-1.5	RED	5.3	100
	RV1-5	0.5-1.5	RED	5.3	100
	RC1-6	0.5-1.5	RED	6.4	100
	RV1-6	0.5-1.5	RED	6.4	100
	RC1-8	0.5-1.5	RED	8.5	100
	RV1-8	0.5-1.5	RED	8.5	100
	RC1-10	0.5-1.5	RED	10.5	100
	RV1-10	0.5-1.5	RED	10.5	100
	RC2-3	1.5-2.5	BLUE	3.2	100
	RV2-3	1.5-2.5	BLUE	3.2	100
	RC2-3.5	1.5-2.5	BLUE	3.7	100
	RV2-3.5	1.5-2.5	BLUE	3.7	100
	RC2-4B	1.5-2.5	BLUE	4.2	100
	RV2-4	1.5-2.5	BLUE	4.2	100
	RC2-5	1.5-2.5	BLUE	5.3	100
	RV2-5	1.5-2.5	BLUE	5.3	100
	RC2-6	1.5-2.5	BLUE	6.4	100
	RV2-6	1.5-2.5	BLUE	6.4	100
	RC2-8	1.5-2.5	BLUE	8.5	100
	RV2-8	1.5-2.5	BLUE	8.5	100
	RC2-10	1.5-2.5	BLUE	10.5	100
	RV2-10	1.5-2.5	BLUE	10.5	100
	RC2-12	1.5-2.5	BLUE	13.0	100
	RV2-12	1.5-2.5	BLUE	13.0	100
	RC5-3.5	2.5-6.0	YELLOW	3.7	100
	RV5-3.5	2.5-6.0	YELLOW	3.7	100
	RC5-4	2.5-6.0	YELLOW	4.2	100
	RV5-4	2.5-6.0	YELLOW	4.2	100
	RC5-5	2.5-6.0	YELLOW	5.3	100
	RV5-5	2.5-6.0	YELLOW	5.3	100
	RC5-6	2.5-6.0	YELLOW	6.4	100
	RV5-6	2.5-6.0	YELLOW	6.4	100
	RC5-8	2.5-6.0	YELLOW	8.3	100
	RV5-8	2.5-6.0	YELLOW	8.3	100
	RC5-10	2.5-6.0	YELLOW	10.5	50
	RV5-10	2.5-6.0	YELLOW	10.5	50
	RC5-12	2.5-6.0	YELLOW	13.0	50
	RV5-12	2.5-6.0	YELLOW	13.0	50



PRE-INSULATED RING TERMINALS

PRE-INSULATED SPADE TERMINALS

CODE	PART NO.	WIRE SIZE mm ²	COLOUR	STUD SIZE mm	PACK QTY
T	SC1-3	0.5-1.5	RED	3.2	100
	SV1-3	0.5-1.5	RED	3.2	100
	SC1-3.5	0.5-1.5	RED	3.7	100
	SV1-3.5	0.5-1.5	RED	3.7	100
	SC1-4	0.5-1.5	RED	4.2	100
	SV1-4	0.5-1.5	RED	4.2	100
	SC1-5	0.5-1.5	RED	5.3	100
	SV1-5	0.5-1.5	RED	5.3	100
	SC2-3	1.5-2.5	BLUE	3.7	100
	SV2-3	1.5-2.5	BLUE	3.7	100
	SC2-3.5	1.5-2.5	BLUE	3.7	100
	SV2-3.5	1.5-2.5	BLUE	3.7	100
	SC2-4	1.5-2.5	BLUE	4.2	100
	SV2-4	1.5-2.5	BLUE	4.2	100
	SC2-5	1.5-2.5	BLUE	5.3	100
	SV2-5	1.5-2.5	BLUE	5.3	100
	SC5-3.5	2.5-6.0	YELLOW	3.7	100
	SV5-3.5	2.5-6.0	YELLOW	3.7	100
	SC5-4	2.5-6.0	YELLOW	4.2	100
	SV5-4	2.5-6.0	YELLOW	4.2	100
	SC5-5	2.5-6.0	YELLOW	5.3	100
	SV5-5	2.5-6.0	YELLOW	5.3	100
	SC5-6	2.5-6.0	YELLOW	6.4	100
	SV5-6	2.5-6.0	YELLOW	6.4	100



PRE-INSULATED SPADE TERMINALS



PRE-INSULATED BUTT SPLICES



PRE-INSULATED NYLON BUTT SPLICES

PRE-INSULATED VINYL BUTT SPLICES

CODE	PART NO.	WIRE SIZE mm ²	COLOUR	PACK QTY
T	BSV1	0.5-1.5	RED	100
	BSV2	1.5-2.5	BLUE	100
	BSV5	2.5-6.0	YELLOW	100

PRE-INSULATED NYLON BUTT SPLICES (Copper grip)

CODE	PART NO.	WIRE SIZE mm ²	COLOUR	DESCRIPTION	PACK QTY
T	BSC1	0.5-1.5	RED	COPPER GRIP	100
	NBSC1	0.5-1.5	RED	AIRCRAFT TYPE	100
	BSC2	1.5-2.5	BLUE	COPPER GRIP	100
	NBSC2	1.5-2.5	BLUE	AIRCRAFT TYPE	100
	BSC5	2.5-6.0	YELLOW	COPPER GRIP	50
	NBSC5	2.5-6.0	YELLOW	AIRCRAFT TYPE	50



PRE-INSULATED PARALLEL SPLICES

PRE-INSULATED PARALLEL SPLICES (See butt splice for standard wire joining)

CODE	PART NO.	WIRE SIZE mm ²	COLOUR	PACK QTY
T	PSV1	0.5-1.5	RED	100
	PSV2	1.5-2.5	BLUE	100
	PSV5	2.5-6.0	YELLOW	100

PRE-INSULATED END SPLICES

CODE	PART NO.	WIRE SIZE mm ²	COLOUR	PACK QTY
T	ES1	0.5-1.5	OPAQUE	100
	ES2	1.5-2.5	OPAQUE	100
	ES5	2.5-6.0	OPAQUE	100



PRE-INSULATED END SPLICES

PRE-INSULATED WIRE PINS

CODE	PART NO.	WIRE SIZE mm ²	COLOUR	PIN LENGTH	PACK QTY
T	WPC1	0.5–1.5	RED	9	100
	WPV1	0.5–1.5	RED	9	100
	WPC1/12	0.5–1.5	RED	12	100
	WPV1/12	0.5–1.5	RED	12	100
	WPC2	1.5–2.5	BLUE	9	100
	WPV2	1.5–2.5	BLUE	9	100
	WPC2/12	1.5–2.5	BLUE	12	100
	WPV2/12	1.5–2.5	BLUE	12	100
	WPC5	2.5–6.0	YELLOW	14	100
	WPV5	2.5–6.0	YELLOW	14	100



PRE-INSULATED FLAT BLADES

CODE	PART NO.	WIRE SIZE mm ²	COLOUR	BLADE L x W	PACK QTY
T	FBC1-2.3	0.5–1.5	RED	11.4 x 2.3	100
	FBC1-2.3L	0.5–1.5	RED	18.4 x 2.3	100
	FBC1-3	0.5–1.5	RED	11.0 x 3.0	100
	FBC1-3L	0.5–1.5	RED	14.5 x 3.0	100
	FBC2-2.3	1.5–2.5	BLUE	11.4 x 2.3	100
	FBC2-2.3L	1.5–2.5	BLUE	18.4 x 2.3	100
	FBC5-3	2.5–6.0	YELLOW	10.0 x 2.8	100
	FBC5-5	2.5–6.0	YELLOW	14.0 x 4.5	50



PRE-INSULATED LIP BLADES

CODE	PART NO.	WIRE SIZE mm ²	COLOUR	BLADE L x W	PACK QTY
T	LBC1-3	0.5–1.5	RED	17.8 x 2.8	100
	LBC1-5	0.5–1.5	RED	17.8 x 4.6	100
	LBC2-3	1.5–2.5	BLUE	17.8 x 2.8	100
	LBC2-5	1.5–2.5	BLUE	17.8 x 4.6	100
	LBC5-3	2.5–6.0	YELLOW	16.8 x 3.0	50
	LBC5-5	2.5–6.0	YELLOW	16.8 x 4.6	50



PRE-INSULATED QUICK CONNECT FEMALE

CODE	PART NO.	WIRE SIZE mm ²	COLOUR	SUIT TAB	PACK QTY
T	QCF1-3/5	0.5–1.5	RED	2.8 x 0.5	100
	QCF1-3/8	0.5–1.5	RED	2.8 x 0.8	100
	QCF1-5/5	0.5–1.5	RED	4.8 x 0.5	100
	QCF1-5/8	0.5–1.5	RED	4.8 x 0.8	100
	QCF1-6	0.5–1.5	RED	6.3 x 0.8	100
	QCF2-3/5	1.5–2.5	BLUE	2.8 x 0.5	100
	QCF2-3/8	1.5–2.5	BLUE	2.8 x 0.8	100
	QCF2-5/5	1.5–2.5	BLUE	4.8 x 0.5	100
	QCF2-5/8	1.5–2.5	BLUE	4.8 x 0.8	100
	QCF2-6	1.5–2.5	BLUE	6.3 x 0.8	100
	QCF2-8	1.5–2.5	BLUE	7.9 x 0.8	100
	QCF5-6	2.5–6.0	YELLOW	6.3 x 0.8	100
	QCF5-9	2.5–6.0	YELLOW	9.5 x 1.2	100



FULLY INSULATED QUICK CONNECT FEMALE

CODE	PART NO.	WIRE SIZE mm ²	COLOUR	SUIT TAB	PACK QTY
T	QCF1-5F	0.5-1.5	RED	4.8 x 0.5	100
	QCF1-5F/8	0.5-1.5	RED	4.8 x 0.8	100
	QCF1-6F	0.5-1.5	RED*	6.3 x 0.8	100
	QCF2-5F/5	1.5-2.5	BLUE	4.8 x 0.5	100
	QCF2-5F/8	1.5-2.5	BLUE	4.8 x 0.8	100
	QCF2-6F	1.5-2.5	BLUE*	6.3 x 0.8	100
	QCF5-6F	2.5-6.0	YELLOW*	6.3 x 0.8	100

* Nylon Insulation 105°C.

90° FULLY INSULATED QUICK CONNECT FEMALE

CODE	PART NO.	WIRE SIZE mm ²	COLOUR	SUIT TAB	PACK QTY
T	QCF1-6F90	0.5-1.5	RED	6.3 x 0.8	100
	QCF2-6F90	1.5-2.5	BLUE	6.3 x 0.8	100

FULLY INSULATED QUICK CONNECT MALE

CODE	PART NO.	WIRE SIZE mm ²	COLOUR	SUIT F	PACK QTY
T	QCM1-6F	0.5-1.5	RED	QCF1-6F	100
	QCM2-6F	1.5-2.5	BLUE	QCF2-6F	100

PRE-INSULATED QUICK CONNECT MALE

CODE	PART NO.	WIRE SIZE mm ²	COLOUR	SUIT F	PACK QTY
T	QCM1-6	0.5-1.5	RED	6.3 x 0.8	100
	QCM2-6	1.5-2.5	BLUE	6.3 x 0.8	100
	QCM5-6	2.5-6.0	YELLOW	6.3 x 0.8	100

PRE-INSULATED QUICK CONNECT PIGGY BACK

CODE	PART NO.	WIRE SIZE mm ²	COLOUR	SUIT TAB	PACK QTY
T	QCF1-6P	0.5-1.5	RED	6.3 x 0.8	100
	QCF2-6P	1.5-2.5	BLUE	6.3 x 0.8	100
	QCF5-6P	2.5-6.0	YELLOW	6.3 x 0.8	100

PRE-INSULATED BULLET MALE

CODE	PART NO.	WIRE SIZE mm ²	COLOUR	BULLET Ø mm	PACK QTY
T	BCM1-4	0.5-1.5	RED	4	100
	BCM2-5	1.5-2.5	BLUE	5	100
	BCM5-5	2.5-6.0	YELLOW	5	100

PRE-INSULATED BULLET FEMALE

CODE	PART NO.	WIRE SIZE mm ²	COLOUR	BULLET Ø mm	PACK QTY
T	BCF1-4	0.5-1.5	RED	4	100
	BCF2-5	1.5-2.5	BLUE	5	100
	BCF5-5	2.5-6.0	YELLOW	5	100

**FULLY INSULATED QUICK CONNECT FEMALE****90° FULLY INSULATED QUICK CONNECT FEMALE****FULLY INSULATED QUICK CONNECT MALE****PRE-INSULATED QUICK CONNECT MALE****PRE-INSULATED QUICK CONNECT PIGGY BACK****PRE-INSULATED BULLET MALE****PRE-INSULATED BULLET FEMALE**

UNINSULATED TERMINALS

UNINSULATED RING TERMINALS

CODE	PART NO.	WIRE SIZE mm ²	STUD SIZE mm	PACK QTY
T	R1-3.5	0.5-1.5	3.7	100
	R1-4	0.5-1.5	4.2	100
	R1-5	0.5-1.5	5.3	100
	R1-6	0.5-1.5	6.4	100
	R2-3	1.5-2.5	3.2	100
	R2-4	1.5-2.5	4.2	100
	R2-5	1.5-2.5	5.3	100
	R2-6	1.5-2.5	6.4	100
	R2-8	1.5-2.5	8.5	100
	R2-10	1.5-2.5	10.5	100
	R5-4	2.5-6.0	4.2	100
	R5-5	2.5-6.0	5.3	100
	R5-6	2.5-6.0	6.4	100
	R5-8	2.5-6.0	8.5	100
	R5-10	2.5-6.0	10.5	100



UNINSULATED SPADE TERMINALS

CODE	PART NO.	WIRE SIZE mm ²	STUD SIZE mm	PACK QTY
T	S1-3	0.5-1.5	3.2	100
	S1-4	0.5-1.5	4.2	100
	S1-5	0.5-1.5	5.3	100
	S2-3.5	1.5-2.5	3.7	100
	S2-4	1.5-2.5	4.2	100
	S2-5	1.5-2.5	5.3	100
	S5-5	2.5-6.0	5.3	100
	S5-6	2.5-6.0	6.4	100



UNINSULATED BUTT SPLICE

CODE	PART NO.	WIRE SIZE mm ²	PACK QTY
T	BS1	0.5-1.5	100
	BS2	1.5-2.5	100
	BS5	2.5-6.0	100



UNINSULATED PARALLEL SPLICE

CODE	PART NO.	WIRE SIZE mm ²	PACK QTY
T	PSU1	0.5-1.5	100
	PSU2	1.5-2.5	100
	PSU5	2.5-6.0	100



UNINSULATED QUICK CONNECT TERMINALS AND INSULATOR

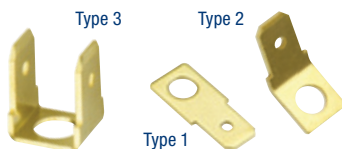
CODE	PART NO.	WIRE SIZE mm ²	D/SCRIPT	SUIT TAB W x T	PACK QTY
T	604001BL2	0.5-1.3	QC	2.8 x 0.5	100
	605402BL2	0.85-1.25	TAB	6.3 x 0.8	100
	604002VL	-	INSULATOR	2.8 x 0.5	100
	604201BL2	0.5-1.3	QC	4.8 x 0.8	100
	604402BL2	0.8-2.0	QC	6.3 x 0.8	100
	604402BLNK	0.8-2.0	NICKEL PLATED	6.35 x 0.8	100
	604402VL	-	PRE FIT INSULATOR	6.35	100
	735075	-	POST FIT INSULATOR	6.35	100
	H2852	0.7-1.5	QC FLAG	6.3 x 0.8	100
	610201VL	-	INSULATOR	-	100
	2MF6	-	ADAPTOR	6.3 x 0.8	100

UNINSULATED QUICK CONNECT
TERMINALS & TABS

FLAG TERMINAL & INSULATOR



735075 ADAPTOR



QUICK CONNECT TABS

UNINSULATED QUICK CONNECT TABS

CODE	PART NO.	MOUNTING HOLE Ø	TYPE	TAB WIDTH mm	PACK QTY
T	DT1	4.3	1	6.3	100
	DT145	4.3	2	6.3	100
	DT145/5.3	5.3	2	6.3	100
	DT290	4.3	3	6.3	100

UNINSULATED "F" CRIMP RING TERMINALS

CODE	PART NO.	WIRE SIZE mm ²	STUD SIZE mm	PACK QTY
T	602402BL2	0.8-1.3	5.5	100
	602501BL2	0.8-1.3	6.4	100



"F" CRIMP RING TERMINALS

UNINSULATED MALE BULLET AND FEMALE BULLET

CODE	PART NO.	WIRE SIZE mm ²	GENDER	PACK QTY
T	BM1-5	-	MALE	100
	BM1-5VL	INSULATOR	MALE	100
	BF1-5	-	FEMALE	100
	BF1-5VL	INSULATOR	FEMALE	100

UNINSULATED MALE BULLET &
FEMALE BULLET

QUIK SPLICE

CODE	PART NO.	WIRE SIZE mm ²	COLOUR	PACK QTY
T	90803	4-6	YELLOW	100
	90806	1.5-2.5	WHITE	100
	B230	1.0-2	BLACK	100



UNINSULATED BULLET INSULATORS



QUIK SPLICE

HEAT SHRINKABLE PRE-INSULATED TERMINALS

The **CARROLL** range of sealed, heat shrinkable crimp terminals are the perfect solution for single wire terminations in corrosive environments, such as marine.

The tin plated copper terminals feature a tough, heat shrinkable, adhesive lined, colour coded insulation.

After completion of the standard crimping process, the terminal insulation is then heated with a heat gun or small gas torch. Within seconds, the terminal insulation then shrinks and the internal adhesive sealant melts and flows to provide a permanent seal and bond to the wire insulation.

HEAT SHRINKABLE PRE-INSULATED RING TERMINALS

CODE	PART NO.	WIRE SIZE mm ²	COLOUR	STUD SIZE mm	PACK QTY
T	RW1-3.5	0.5–1.5	RED	3.7	25
	RW1-4	0.5–1.5	RED	4.2	25
	RW1-5	0.5–1.5	RED	5.3	25
	RW1-6	0.5–1.5	RED	6.4	25
	RW2-3.5	1.5–2.5	BLUE	3.7	25
	RW2-4	1.5–2.5	BLUE	4.2	25
	RW2-5	1.5–2.5	BLUE	5.3	25
	RW2-6	1.5–2.5	BLUE	6.4	25
	RW2-8	1.5–2.5	BLUE	8.5	25
	RW2-10	1.5–2.5	BLUE	10.5	25
	RW5-4	2.5–6.0	YELLOW	4.2	25
	RW5-5	2.5–6.0	YELLOW	5.3	25
	RW5-6	2.5–6.0	YELLOW	6.4	25
	RW5-8	2.5–6.0	YELLOW	8.5	25
	RW5-10	2.5–6.0	YELLOW	10.5	25
	RW5-12	2.5–6.0	YELLOW	13	25



HEAT SHRINKABLE PRE-INSULATED SPADE TERMINALS

CODE	PART NO.	WIRE SIZE mm ²	COLOUR	STUD SIZE mm	PACK QTY
T	SW1-3.5	0.5–1.5	RED	3.7	25
	SW1-4	0.5–1.5	RED	4.2	25
	SW1-5	0.5–1.5	RED	5.3	25
	SW2-3.5	1.5–2.5	BLUE	3.7	25
	SW2-4	1.5–2.5	BLUE	4.2	25
	SW2-5	1.5–2.5	BLUE	5.3	25
	SW5-5	2.5–6.0	YELLOW	5.3	25
	SW5-6	2.5–6.0	YELLOW	6.4	25



HEAT SHRINKABLE FULLY INSULATED QUICK CONNECT FEMALE

CODE	PART NO.	WIRE SIZE mm ²	COLOUR	STUD TAB	PACK QTY
T	QWF1-6F	0.5–1.5	RED	6.3 x 0.8	25
	QWF2-6F	1.5–2.5	BLUE	6.3 x 0.8	25
	QWF5-6F	2.5–6.0	YELLOW	6.3 x 0.8	25

**HEAT SHRINKABLE FULLY INSULATED
QUICK CONNECT FEMALE****HEAT SHRINKABLE FULLY INSULATED QUICK CONNECT MALE**

CODE	PART NO.	WIRE SIZE mm ²	COLOUR	STUD TAB	PACK QTY
T	QWM1-6	0.5–1.5	RED	6.3 x 0.8	25
	QWM2-6	1.5–2.5	BLUE	6.3 x 0.8	25
	QWM5-6	2.5–6.0	YELLOW	6.3 x 0.8	25

**HEAT SHRINKABLE FULLY INSULATED
QUICK CONNECT MALE****HEAT SHRINKABLE PRE-INSULATED BULLET MALE**

CODE	PART NO.	WIRE SIZE mm ²	COLOUR	BULLET Ø mm	PACK QTY
T	BWM2-5	1.5–2.5	BLUE	5	25

**HEAT SHRINKABLE PRE-INSULATED
BULLET MALE****HEAT SHRINKABLE PRE-INSULATED BULLET FEMALE**

CODE	PART NO.	WIRE SIZE mm ²	COLOUR	BULLET Ø mm	PACK QTY
T	BWF2-5	1.5–2.5	BLUE	5	25

**HEAT SHRINKABLE PRE-INSULATED
BULLET FEMALE****HEAT SHRINKABLE PRE-INSULATED BUTT SPLICE**

CODE	PART NO.	WIRE SIZE mm ²	COLOUR	PACK QTY
T	BSW1	0.5–1.5	RED	25
	BSW2	1.5–2.5	BLUE	25
	BSW5	2.5–6.0	YELLOW	25
	BSW1/100	0.5–1.5	RED	100
	BSW2/100	1.5–2.5	BLUE	100
	BSW5/100	2.5–6.0	YELLOW	100

**HEAT SHRINKABLE PRE-INSULATED
BUTT SPLICE**

END SLEEVE BOOT LACE FERRULES

Designed to be crimped onto the end of flexible wires and cables before insertion into rail mounted or screw terminals, to provide protection to the fragile wire strands against bending back and breakage. Featuring a funnel entry, the fine electrolytic copper tubes are tin plated for superior conductivity and corrosion resistance. Pre-insulated ferrules are colour coded by size for easy product selection.

PRE-INSULATED END SLEEVE (BOOT LACE) FERRULES

CODE	PART NO.	WIRE SIZE mm ²	COLOUR	LENGTH	PACK QTY
T	A00352	0.25/0.34	PINK	6	500
	A00382	0.25/0.34	PINK	8	500
	A00552	0.50	WHITE	8	500
	A00752	0.75	BLUE	8	500
	A01052	1	RED	8	500
	A01552	1.5	BLACK	8	500
	A01582	1.5	BLACK	10	500
	A02552	2.5	GREY	8	500
	A02582	2.5	GREY	18	500
	A04052	4	ORANGE	9	100
	A04082	4	ORANGE	12	100
	A06052	6	GREEN	12	100
	A06082	6	GREEN	18	100
	A10052	10	BROWN	12	100
	A10082	10	BROWN	18	100
	A16052	16	WHITE	12	100
	A16082	16	WHITE	18	100
	A25082	25	BLACK	18	50
	A25092	25	BLACK	22	50
	A35082	35	RED	16	20
	A35092	35	RED	25	20
	A50082	50	BLUE	20	10
	A70082	70	YELLOW	20	10
	A95082	95	RED	25	10



PRE-INSULATED END SLEEVE
(BOOT LACE) FERRULES



PRE-INSULATED END SLEEVE
(BOOT LACE) FERRULES

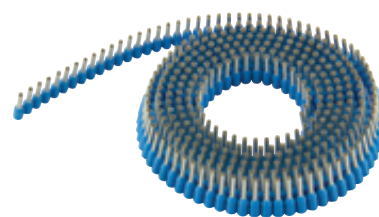


PRE-INSULATED END SLEEVE
(BOOT LACE) FERRULES

PRE-INSULATED END SLEEVE (BOOT LACE) FERRULES – REEL

Note: Three standards of colour coding exist. This colour coding standard offered by **CARROLL** is the most widely recognised and accepted.

CODE	PART NO.	WIRE SIZE mm ²	COLOUR	LENGTH	PACK QTY PER REEL
T	AR0552	0.50	WHITE	8	1000
	AR0752	0.75	BLUE	8	1000
	AR1052	1	RED	8	1000
	AR1552	1.5	BLACK	8	1000
	AR2552	2.5	GREY	8	500



PRE-INSULATED END SLEEVE
FERRULES REEL

UNINSULATED END SLEEVE (BOOT LACE) FERRULES

Designed to be fitted onto the ends of flexible wires and cables prior to insertion into components, to provide protection to the wire strands. Specifically suited to applications where limited space prohibits the use of standard pre-insulated ferrules.

CODE	PART NO.	WIRE SIZE mm ²	LENGTH mm	PACK QTY
T	AU00552	0.5	6	500
	AU00752	0.75	6	500
	AU01052	1	6	500
	AU01552	1.5	7	500
	AU01582	1.5	10	500
	AU02552	2.5	7	500
	AU02572	2.5	12	500
	AU04052	4	9	100
	AU04082	4	12	100
	AU06052	6	10	100
	AU06082	6	15	100
	AU06092	6	20	100
	AU10082	10	15	100
	AU10092	10	20	100
	AU16082	16	15	100
	AU16092	16	20	100
	AU25082	25	18	50
	AU35082	35	20	50
	AU50082	50	22	10
	AU70802	70	25	10
	AU95082	95	25	10



PRE-INSULATED TWIN END SLEEVE (BOOT LACE) FERRULES

Designed to be crimped onto the end of two wires. This facilitates daisy chaining and termination of two wires into the tight spaces experienced in today's electrical equipment.

CODE	PART NO.	WIRE SIZE mm ²	COLOUR	LENGTH mm	PACK QTY
T	AT0752	2 x 0.75	GREY	8	100
	AT1052	2 x 1.0	RED	8	100
	AT1552	2 x 1.5	BLACK	8	100
	AT2552	2 x 2.5	BLUE	10	100
	AT4052	2 x 4.0	GREY	12	50
	AT6052	2 x 6.0	YELLOW	14	50



CARROLL CABLE LUGS AND LINKS

CARROLL COPPER LUGS AND LINKS

Manufactured from fully annealed, 99.95% pure high conductivity copper and are electro-tin plated for superior corrosion resistance. **CARROLL** lugs also include crimp lines for improved accuracy during installation.

Features

- 99.95% pure electrolytic copper
- Electrical conductivity 99.7% IACS
- Oxygen content 30 ppm max
- Fully annealed
- 5-10 Micron, 99.9% pure tin plating
- Operating temperature range of -55 to 155°C
- Conformant standards: AS/NZS 4325 - Part 1.
- Lug sizes 10 to 630mm² are supplied bell mouth as standard
- All other sizes are straight barrel type
- Printed crimp line marks for added guidance
- Inspection window to assist with cable insertion

CARROLL CIRCUIT BREAKER / NARROW PALM LUGS

Palm widths of standard copper lugs are too wide to fit 150 - 250A circuit breakers. **CARROLL** has a comprehensive range of circuit breaker lugs which also feature a convenient bell mouth to facilitate easy insertion of flexible cables. These lugs utilise standard barrel dimensions, normal crimping rules using standard tools and crimp dies apply.

CARROLL LONG PALM-LONG BARREL LUGS

CARROLL Long Palm-Long Barrel Lugs are designed to accommodate two bolt mounting for secure termination. The longer barrel allows improved surface area for heatshrink sealing and multiple crimps if desired.

- Sizes 300mm² and above are supplied blank.
- Designed to be crimped with standard hexagonal dies and tooling.

CARROLL ALUMINIUM BI-METAL TERMINALS

Aluminium/Copper Bi-metal terminals are used for connecting aluminium cables to copper busbars. Constructed with forged circular copper palm and friction welded to an EC grade aluminium circular barrel thus achieving the best possible transition Bi-Metals require.



COPPER CABLE LUG



COPPER CRIMP LINK



CIRCUIT BREAKER



LONG PALM LONG BARREL



BI METAL LUG

COPPER CABLE LUGS

CARROLL copper lugs and links are manufactured from fully annealed, 99.95% pure high conductivity copper and are electro-tin plated for superior corrosion resistance. **CARROLL** lugs also include crimp lines for improved accuracy during installation.

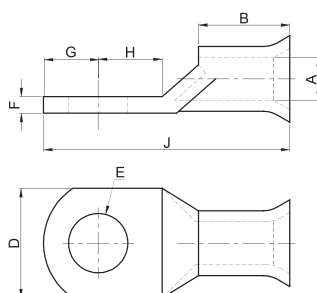
PART NO.	BARREL TYPE	WIRE SIZE mm ²	DIMENSIONS mm								PACK QTY
			Ø STUD E	I.D. A	PALM WIDTH D	PALM THICKNESS F	BARREL LENGTH B	H	G	LENGTH J	
CUL1.5-5	Straight	1.5	5	1.8	8	1	7	5	4	18	100
CUL1.5-6	Straight	1.5	6	1.8	10	0.8	7	6	4	19	100
CUL2.5-4	Straight	2.5	4	2.4	8	1	8	5	4	19	100
CUL2.5-5	Straight	2.5	5	2.4	10	0.8	8	6	5	21	100
CUL2.5-6	Straight	2.5	6	2.4	10	0.8	8	6	5	21	100
CUL2.5-8	Straight	2.5	8	2.4	12	0.6	8	9	6	26	100
CUL4-5	Straight	4.0	5	3.1	10	1	9	6	5	22	100
CUL4-6	Straight	4.0	6	3.1	10	1	9	6	5	22	100
CUL4-8	Straight	4.0	8	3.1	12	0.88	9	9	6	27	100
CUL4-10	Straight	4.0	10	3.1	15	0.7	9	11	8	32	100
CUL6-5	Straight	6.0	5	3.8	10	1.24	9	6	5	23	100
CUL6-6	Straight	6.0	6	3.8	12	1	9	9	6	27	100
CUL6-8	Straight	6.0	8	3.8	12	1	10	9	6	28	100
CUL6-10	Straight	6.0	10	3.8	15	1	10	11	8	32	100
CUL10-5	Bell Mouth	10.0	5	4.7	12	1.8	10	7	6	27	100
CUL10-6	Bell Mouth	10.0	6	4.7	12	1.8	10	7	6	27	100
CUL10-8	Bell Mouth	10.0	8	4.7	14	1.6	10	8	7	29	100
CUL10-10	Bell Mouth	10.0	10	4.7	15	1.5	10	10	8	32	100
CUL10-12	Bell Mouth	10.0	12	4.7	18	1	11	13	10	38	100
CUL16-6	Bell Mouth	16.0	6	5.5	11	2.4	19	9	7	39	50
CUL16-8	Bell Mouth	16.0	8	5.5	14	1.7	19	9	7	39	50
CUL16-10	Bell Mouth	16.0	10	5.5	16	1.5	19	10	8	41	50
CUL16-12	Bell Mouth	16.0	12	5.5	18	1.4	19	13	10	46	50
CUL25-6	Bell Mouth	25.0	6	7.1	13.5	2.4	21	9	7	41	50
CUL25-8	Bell Mouth	25.0	8	7.1	13.5	2.4	21	9	7	41	50
CUL25-10	Bell Mouth	25.0	10	7.1	16	1.96	21	10	9	44	50
CUL25-12	Bell Mouth	25.0	12	7.1	18	1.74	21	13	10	48	50
CUL35-6	Bell Mouth	35.0	6	8.4	16	3	21	10	9	45	50
CUL35-8	Bell Mouth	35.0	8	8.4	16	3	21	10	9	45	50
CUL35-10	Bell Mouth	35.0	10	8.4	18	2.6	21	10	9	45	50
CUL35-12	Bell Mouth	35.0	12	8.4	20	2.42	22	13	11	51	50
CUL50-6	Bell Mouth	50.0	6	9.5	18	3.2	22	10	8	46	50
CUL50-8	Bell Mouth	50.0	8	9.5	18	3.2	22	10	8	46	50
CUL50-10	Bell Mouth	50.0	10	9.5	18	3.2	22	10	8	46	50
CUL50-12	Bell Mouth	50.0	12	9.5	21	2.7	22	13	11	54	50
CUL70-6	Bell Mouth	70.0	6	11.3	21	3.2	24	13	11	54	25
CUL70-8	Bell Mouth	70.0	8	11.3	21	3.2	24	13	11	54	25
CUL70-10	Bell Mouth	70.0	10	11.3	21	3.2	24	13	11	54	25
CUL70-12	Bell Mouth	70.0	12	11.3	21	3.2	24	13	11	54	25
CUL70-16	Bell Mouth	70.0	16	11.3	26	3.2	24	14	13	61	25
CUL95-6	Bell Mouth	95.0	6	13.5	25	3.8	27	14	12	60	25
CUL95-8	Bell Mouth	95.0	8	13.5	25	3.8	27	14	12	60	25
CUL95-10	Bell Mouth	95.0	10	13.5	25	3.8	27	14	12	60	25
CUL95-12	Bell Mouth	95.0	12	13.5	25	3.8	27	14	12	60	25
CUL95-16	Bell Mouth	95.0	16	13.5	25	3.8	27	16	14	64	25
CUL120-8	Bell Mouth	120.0	8	15.6	30	4.7	30	14	12	64	25
CUL120-10	Bell Mouth	120.0	10	15.6	30	4.7	30	14	12	64	25
CUL120-12	Bell Mouth	120.0	12	15.6	30	4.7	30	14	12	64	25
CUL120-16	Bell Mouth	120.0	16	15.6	30	4.7	30	16	16	72	25
CUL150-10	Bell Mouth	150.0	10	16.7	32	5.25	30	16	16	71	20
CUL150-12	Bell Mouth	150.0	12	16.7	32	5.25	30	18	18	75	20

PART NO.	BARREL TYPE	WIRE SIZE mm ²	DIMENSIONS mm								PACK QTY
			Ø STUD E	I.D. A	PALM WIDTH D	PALM THICKNESS F	BARREL LENGTH B	H	G	LENGTH J	
CUL150-16	Bell Mouth	150.0	16	16.7	32	5.25	30	18	18	75	20
CUL185-10	Bell Mouth	185.0	10	18.4	36	5.39	32	16	16	74	20
CUL185-12	Bell Mouth	185.0	12	18.4	36	5.39	32	18	18	79	20
CUL185-16	Bell Mouth	185.0	16	18.4	36	5.39	32	18	18	79	20
CUL240-0	Bell Mouth	240.0	0	21.2	41	7	38	21	21	92	1
CUL240-10	Bell Mouth	240.0	10	21.2	41	7	38	21	21	92	1
CUL240-12	Bell Mouth	240.0	12	21.2	41	7	38	21	21	92	1
CUL240-16	Bell Mouth	240.0	16	21.2	41	7	38	21	21	92	1
CUL300-0	Bell Mouth	300.0	0	23.8	46	7.7	42	23	23	101	1
CUL300-12	Bell Mouth	300.0	12	23.8	46	7.7	42	23	23	101	1
CUL300-16	Bell Mouth	300.0	16	23.8	46	7.7	42	23	23	101	1
CUL400-0	Bell Mouth	400.0	0	26.8	50	7.9	44	24	24	114	1
CUL400-12	Bell Mouth	400.0	12	26.8	50	7.9	44	24	24	114	1
CUL400-16	Bell Mouth	400.0	16	26.8	50	7.9	44	24	24	114	1
CUL500-0	Bell Mouth	500.0	0	30	56	7.6	50	27	27	119	1
CUL500-12	Bell Mouth	500.0	12	30	56	7.6	50	27	27	119	1
CUL500-16	Bell Mouth	500.0	16	30	56	7.6	50	27	27	119	1
CUL630-0	Bell Mouth	630.0	0	34	64.4	9.5	58	32	32	139	1
CUL630-12	Bell Mouth	630.0	12	34	64.4	9.5	58	32	32	139	1
CUL630-16	Bell Mouth	630.0	16	34	64.4	9.5	58	32	32	139	1
CUL800-0 *	Straight	800.0	0	39.3	74	14.0	125	62.5	62.5	275	1
CUL1000-0 *	Straight	1000.0	0	44.0	84.6	16.0	130	62.5	62.5	295	1

* Lead times may apply.



BELLMOUTH LUG



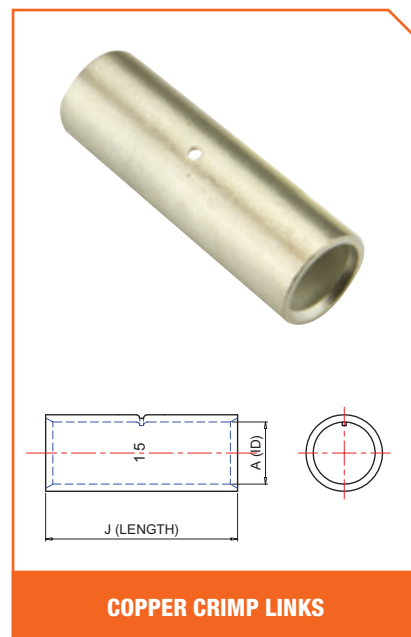
LUG DIMENSIONS



STRAIGHT BARREL LUG

COPPER CRIMP LINKS

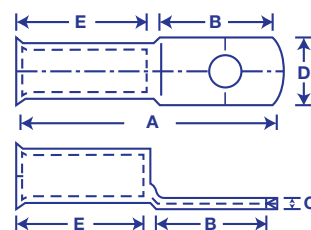
PART NO.	WIRE SIZE mm ²	A	J	PACK QTY
CUI1.5	1.5	1.8	22	100
CUI2.5	2.5	2	22	100
CUI4	4	3.3	22	100
CUI6	6	3.8	22	100
CUI10	10	4.7	22	50
CUI16	16	5.5	44	50
CUI25	25	7.1	47	50
CUI35	35	8.4	47	50
CUI50	50	9.5	47	50
CUI70	70	11.3	50	25
CUI95	95	13.5	54	25
CUI120	120	15.6	65	25
CUI150	150	16.7	65	20
CUI185	185	18.4	65	20
CUI240	240	21.2	90	1
CUI300	300	23.8	90	1
CUI400	400	26.8	90	1
CUI500	500	30	112	1
CUI630	630	34	112	1



CIRCUIT BREAKER/NARROW PALM LUGS

Palm widths of standard copper lugs are too wide to fit 150 - 250A circuit breakers. **CARROLL** has a comprehensive range of circuit breaker lugs which also feature a convenient bell mouth to facilitate easy insertion of flexible cables. These lugs utilise standard barrel dimensions, normal crimping rules using standard tools and crimp dies apply.

PART NO.	WIRE SIZE mm ²	DIMENSIONS (MM)						PACK QTY
		Stud Size	A	B	C	D (P-WTH)	E	
SCB35-6	35	6	41	15	3.0	15.0	21	25
SCB50-6	50	6	43	15	3.2	15.0	22	10
SCB50-10	50	10	49	21	3.2	19.0	22	10
SCB70-6	70	6	45	15	3.3	17.0	24	10
SCB70-10	70	10	51	21	3.3	19.0	24	10
SCB95-8	95	8	51	17	3.9	19.0	27	1
SCB95-10	95	10	55	21	3.9	19.0	27	1
SCB120-8	120	8	61	23	5.0	19.0	30	1
SCB120-10	120	10	61	23	5.0	19.0	30	1
SCB150-8	150	8	66	27	5.5	19.0	30	1
SCB150-10	150	10	66	27	5.5	19.0	30	1
SCB185-10	185	10	74	32	5.7	24.5	32	1
SCB240-10	240	10	82	32	7.1	31.0	38	1
SCB240-12	240	12	82	32	7.1	31.0	38	1
SCB300-10	300	10	87	32	7.8	31.0	42	1
SCB300-12	300	12	87	32	7.8	31.0	42	1

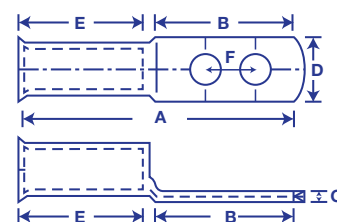


**CIRCUIT BREAKER
NARROW PALM LUGS**

LONG PALM-LONG BARREL LUGS

CARROLL Long Palm-Long Barrel Lugs are designed to accommodate two bolt mounting for secure termination. The longer barrel allows improved surface area for heatshrink sealing and multiple crimps if desired. Sizes 300mm² and above are supplied blank. Designed to be crimped with standard hexagonal dies and tooling.

PART NO.	WIRE SIZE mm ²	STUD SIZE mm	A	B	C	D (P-WTH)	E	F	PACK QTY
LPLB16-6	16	6	86	61	1.5	16	22	20	10
LPLB16-8	16	8	86	61	1.5	16	22	19.8	10
LPLB25-8	25	8	95	61	1.9	16	29	19.8	10
LPLB25-10	25	10	95	61	1.9	16	29	20.2	10
LPLB35-8	35	8	112	72	2.6	18	35	24.2	10
LPLB35-10	35	10	112	72	2.6	18	35	24.6	10
LPLB35-12	35	12	112	72	2.6	18	35	24.3	10
LPLB50-10	50	10	130	80	3.3	18.2	45	27.4	10
LPLB50-12	50	12	130	80	3.3	18.2	45	27.6	10
LPLB70-10	70	10	154	100	3.5	21.2	49	33.7	10
LPLB70-12	70	12	154	100	3.5	21.2	49	34.5	10
LPLB95-10	95	10	161	100	3.9	25	55	33.9	1
LPLB95-12	95	12	161	100	3.9	25	55	34.1	1
LPLB120-10	120	10	168	100	5	28.5	62	33.9	1
LPLB120-12	120	12	168	100	5	28.5	62	34.4	1
LPLB150-12	150	12	169	100	5.8	32	62	34.1	1
LPLB185-12	185	12	174	100	7.1	34	65	36	1
LPLB240-12	240	12	192	100	7.1	40	82	36	1
LPLB300-0	300	-	208	105	7.7	45	92	BLANK	1
LPLB400-0	400	-	228	110	7.8	50	100	BLANK	1
LPLB500-0	500	-	235	110	8.5	56	106	BLANK	1
LPLB630-0	630	-	247	110	10.9	65	115	BLANK	1



LONG PALM-LONG BARREL LUGS

ALUMINIUM - COPPER BI-METAL TERMINALS

Aluminium/Copper Bi-metal terminals are used for connecting aluminium cables to copper busbars. Constructed with forged circular copper palm and friction welded to an EC grade aluminium circular barrel, thus achieving the best possible transition Bi-Metals require. **Designed for aluminium compacted conductor cable.**

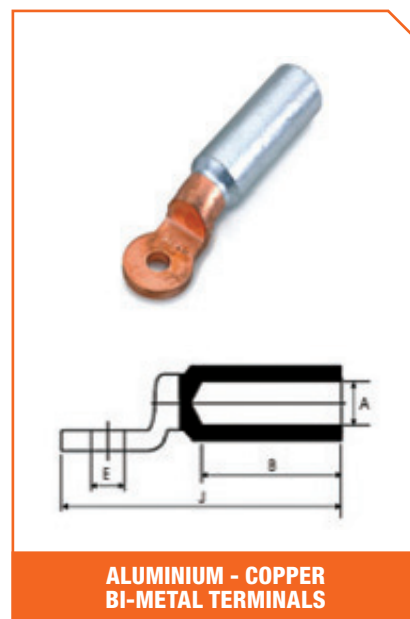
PART NO.	WIRE SIZE mm ²	DIMENSIONS mm				PACK QTY
		E Ø Stud	A	J	B	
BML16-10	16	10	5.5	87	42	1
BML25-10	25	10	6.5	87	42	1
BML35-10	35	10	8	87	42	1
BML50-12	50	12	9	87	43	1
BML70-12	70	12	11	87	43	1
BML95-12	95	12	12.5	87	43	1
BML120-12	120	12	13.5	111	60	1
BML150-12	150	12	15.5	111	60	1
BML185-12	185	12	17.5	116	60	1
BML240-12	240	12	19.5	116	60	1
BML300-12	300	12	22.5	120	62	1
BML400-0	400	-	26	153.5	85	1
BML500-0*	500	-	29.1	196	95	1
BML630-0*	630	-	33.5	196	95	1

* Square palm

CRIMPING TEST APPLIED FORCE :

Up to 240mm² - 1.2 x 105 N

300mm² - 630mm² – 2.0 x 105 N



BATTERY TERMINALS AND PROTECTORS

12 Volts in = 11.999 volts out. (25 times better than the SAE Standard) This is the superior, tested and documented conductivity, you can expect only from Quikcrimp Heavy Duty Battery Terminals and Lugs. Extended life and durability is also provided by protecting the electrical connection against corrosion, by applying a double thickness of tin plating to not only the battery terminal, but also to the bolt and specially stepped shoulder nuts. Chamfered cable entry for easy cable insertion; full height battery post clamp for maximum electrical contact with the battery post; crimp or solder compatible; permanent polarity stamping, and matched terminal and tool die colour coding, guarantees a simple, cost effective, permanent and reliable connection every time.

QUIKCRIMP – CRIMP COPPER BATTERY TERMINALS

CODE	PART NO. POSITIVE	PART NO. NEGATIVE	TERMINAL TYPE	CABLE SIZE mm ²	COLOUR	PACK QTY
TB	4SP	4SN	STRAIGHT	16	GREY	5
	3SP	3SN	STRAIGHT	25	GREY	5
	2SP	2SN	STRAIGHT	35	GREEN	5
	2EP	2EN	ELBOW	35	GREEN	5
	2TEP	2TEN	TWIN ELBOW	35	GREEN	5
	0SP	0SN	STRAIGHT	50	PINK	5
	0EP	0EN	ELBOW	50	PINK	5
	0TEP	0TEN	TWIN ELBOW	50	PINK	5
	00SP	00SN	STRAIGHT	70	BLACK	5
	00EP	00EN	ELBOW	70	BLACK	5
	00TEP	00TEN	TWIN ELBOW	70	BLACK	5
	000SP	000SN	STRAIGHT	-	ORANGE	5
	000EP	000EN	ELBOW	-	ORANGE	5
	000TEP	000TEN	TWIN ELBOW	-	ORANGE	5
	95SP	95SN	STRAIGHT	95	PURPLE	5
	95EP	95EN	ELBOW	95	PURPLE	5
	95TEP	95TEN	TWIN ELBOW	95	PURPLE	5
	120SP	120SN	STRAIGHT	120	YELLOW	5
	120EP	120EN	ELBOW	120	YELLOW	5
	120TEP	120TEN	TWIN ELBOW	120	YELLOW	5

CRIMP BATTERY LUGS

CODE	PART NO. POSITIVE	PART NO. NEGATIVE	TERMINAL TYPE	CABLE SIZE mm ²	PACK QTY
TB	B410	B412	3/4	16	5
	B310	B312	2	25	5
CODE	PART NO. 6mm STUD	PART NO. 8mm STUD	CABLE STUD B & S	CABLE SIZE mm ²	PACK QTY
TB	B206	B208	1	35	5
	-	B9508	-	95	5
	-	B9508/50	-	95	50
CODE	PART NO. 10mm STUD	PART NO. 12mm STUD	CABLE STUD B & S	CABLE SIZE mm ²	PACK QTY
TB	B210	B212	1	35	5
	B010	B012	1 & 0	50	5
	B010/50	B012/50	1 & 0	50	50
	B0010	B0012	00	70	5
	B0010/50	B0012/50	00	70	50
	B00010	B00012	000	-	5
	B9510	B9512	-	95	5
	B9510/50	B9512/50	-	95	50
	-	B12012	-	120	5



STRAIGHT CONNECTOR



ELBOW CONNECTOR



TWIN ELBOW CONNECTOR



LUG CONNECTOR

MARINE DISCONNECT BATTERY TERMINALS

CODE	PART NO. POSITIVE	PART NO. NEGATIVE	WIRE SIZE mm ²	STUD SIZE	PACK QTY
TB	MPL	MNL	10mm	8mm	5



MARINE DISCONNECT BATTERY TERMINAL

MILITARY STYLE BATTERY TERMINALS

CODE	PART NO. POSITIVE	PART NO. NEGATIVE	CONSTRUCTION	MIL SPEC	PACK QTY
TB	MS5350P	MS5349N	Lead with zinc plated steel fastener	A52425-1 (P) A52425-2 (N)	5



MILITARY STYLE BATTERY TERMINALS

BATTERY & LUG PROTECTORS

STRAIGHT PROTECTORS

CODE	PART NO. RED	PART NO. BLACK	CABLE SIZE mm ²	PACK QTY
TB	TPS13R	TPS13B	35	5
	TPS16R	TPS16B	50 & 70	5



STRAIGHT CONNECTOR

ELBOW PROTECTORS

CODE	PART NO. RED	PART NO. BLACK	CABLE SIZE mm ²	PACK QTY
TB	TPE13R	TPE13B	35	5
	TPE16R	TPE16B	70	5



ELBOW PROTECTOR

LUG PROTECTORS

CODE	PART NO. RED	PART NO. BLACK	CABLE SIZE mm ²	PACK QTY
TB	LP13R	LP13B	35	5
	LP16R	LP16B	70	5



LUG PROTECTOR

BOOT PROTECTORS

CODE	PART NO. RED	PART NO. BLACK	CABLE SIZE mm ²	PACK QTY
TB	QTPBR	QTPBB	50 & 70	1



BOOT PROTECTOR

LEFT PROTECTORS

CODE	PART NO. RED	PART NO. BLACK	CABLE SIZE mm ²	PACK QTY
TB	QTPLR	QTPLEB	50 & 70	1



LEFT/RIGHT PROTECTOR

RIGHT PROTECTORS

CODE	PART NO. RED	PART NO. BLACK	CABLE SIZE mm ²	PACK QTY
TB	QTPRER	QTPREB	50 & 70	1

DUAL ENTRY PROTECTOR

CODE	PART NO. RED	PART NO. BLACK	CABLE SIZE mm ²	PACK QTY
TB	QTPDER	QTPDEB	50 & 70	1



DUAL PROTECTOR

BATTERY TERMINAL ACCESSORIES

BATTERY TERMINAL PROTECTION WASHERS

Designed to prevent power robbing corrosion and extend the life of the battery, terminals, lugs and connections. Supplied in a convenient resealable can.

Note: For red order 6622-100R, for black order 6622-100B.

CODE	PART NO. POSITIVE	PART NO. NEGATIVE	PACK QTY
TB	6622-100R	6622-100B	100



BATTERY TERMINAL PROTECTIVE WASHERS

PRE-CUT ADHESIVE LINED HEATSHRINK

Save time and space, and order heatshrink for your battery terminals and lugs, pre-cut and colour coded in red and black. The special tubing is adhesive lined to provide sealing and strain relief to the lug or terminal connection.

CODE	PART NO. RED	PART NO. BLACK	SUPPLIED OD	PACK QTY
TB	5661-010R	5661-010B	13mm	10
	5662-010R	5662-010B	19mm	10
	5663-010R	5663-010B	25mm	10



HEATSHRINK

BATTERY TERMINAL NUTS AND BOLTS

CODE	PART NO.	CONTENTS	PACK QTY
TB	6014-000	NUTS & BOLTS	50

CRIMP STARTER LUGS AND LINKS

CARROLL battery lugs and links are fabricated in one piece from the finest electrolytic copper then electro tinned for optimum electrical performance. The unique short barrel is completely closed and the seam is brazed for uniform metal strength around the entire barrel area. Internal serrations guarantee optimum tensile strength and maximum electrical contact area after crimping. These lugs are designed for all power, automotive, aircraft and marine applications.

CODE	PART NO.	WIRE SIZE AWG	WIRE SIZE mm ²	STUD SIZE	PACK QTY
TB	8-5	8	6.6-10.5	5	50
	8-6	8	6.6-10.5	6	50
	8-8	8	6.6-10.5	8	50
	8-10	8	6.6-10.5	10	50
	8-12	8	6.6-10.5	12	50
	B8	8	6.6-10.5	LINK	50
	14-5	6	10.5-16.7	5	50
	14-6	6	10.5-16.7	6	50
	14-8	6	10.5-16.7	8	50
	14-10	6	10.5-16.7	10	50
	14-12	6	10.5-16.7	12	50
	B14	6	10.5-16.7	LINK	50
	22-6	4	16.7-27.0	6	20
	22-8	4	16.7-27.0	8	20
	22-10	4	16.7-27.0	10	20
	22-12	4	16.7-27.0	12	20
	B22	4	16.7-27.0	LINK	20
	38-S6	2	27.0-42.0	6	20
	38-6	2	27.0-42.0	6	20
	38-S8	2	27.0-42.0	8	20
	38-8	2	27.0-42.0	8	20
	38-S10	2	27.0-42.0	10	20
	38-10	2	27.0-42.0	10	20
	38-12	2	27.0-42.0	12	20



CRIMP BATTERY LUG



CRIMP BATTERY LINK

CRIMP STARTER LUGS AND LINKS *(Continued)*

CODE	PART NO.	WIRE SIZE AWG	WIRE SIZE mm ²	STUD SIZE	PACK QTY
TB	B38	2	27.0–42.0	LINK	20
	60-6	1/0	42.0–66.0	6	20
	60-8	1/0	42.0–66.0	8	20
	60-10	1/0	42.0–66.0	10	20
	60-12	1/0	42.0–66.0	12	20
	B60	1/0	42.0–66.0	LINK	20
	70-6	2/0	66.0–76.0	6	10
	70-8	2/0	66.0–76.0	8	10
	70-10	2/0	66.0–76.0	10	10
	70-12	2/0	66.0–76.0	12	10
	70-16	2/0	66.0–76.0	16	10
	B70	2/0	66.0–76.0	LINK	10
	80-10	3	76.0–85.0	10	5
	80-12	3	76.0–85.0	12	5



CRIMP BATTERY LINK

CABLE SIZING REFERENCE GUIDE

CROSS AREA (mm ²)	STRANDING NO./WIRE (DIA.)	O.D. OF CONDUCTOR NO./ WIRE (DIA.)	STRANDING NEAREST IMPERIAL	STRANDING NEAREST A.W.G. CABLE	O.D. OF P.V.C. INS. SINGLE CORE XLPE/ PVC	O.D. OF P.V.C. SINGLE CORE SHEATHED	O.D. OF SINGLE CORE	TWO CORE	TWO CORE + EARTH	THREE CORE + EARTH	FOUR CORE + EARTH
1	1/1.13	1.13	1/0.44	18	2.9	6.2	-	10.0	-	-	-
	7/0.40	1.20	-	-	-	-	-	-	-	-	-
2	1/1.13	1.38	3/0.29	16	3.2	6.6	-	10.5	10.6	11.8	12.7
-	7/0.50	1.50	1/0.64	-	-	-	-	-	-	-	-
3	7/0.67	2.01	3/0.36	14	3.8	7.2	-	11.8	11.9	13.2	14.2
-	-	-	7/0.29	-	-	-	-	-	-	-	-
4	7/0.85	2.55	7/0.36	12	4.8	8.2	-	13.4	13.5	15	16.4
6	7/1.04	3.12	7/1.04	9	5.3	8.7	-	14.6	14.6	16.2	17.7
10	7/1.35	4.05	7/0.52	7	6.3	9.8	-	16.5	16.6	18.6	20.4
16	7/1.70	5.10	7/0.64	5	7.3	10.8	10	18.7	18.8	21	23.1
-	-	-	19/0.44	-	-	-	-	-	-	-	-
25	19/1.35	6.75	19/0.52	3	9.4	13.0	12.1	22.8	22.9	25.1	27.8
35	19/1.53	7.65	19/0.64	2	10.4	13.9	13	-	-	27.4	30.4
50	19/1.78	8.90	19/0.72	1/0	12.0	15.6	14.5	-	-	31.2	34.9
70	19/2.14	10.70	19/0.83	2/0	13.8	17.5	16.6	-	-	36.2	40.5
-	-	-	37/0.64	-	-	-	-	-	-	-	-
95	37/1.78	12.46	37/0.72	3/0	16.0	19.9	18.7	-	-	40.7	45.7
120	37/2.03	14.21	37/0.83	250 MCM	17.7	21.7	20.7	-	-	44.9	50.6
150	37/2.25	15.75	37/0.93	300 MCM	19.7	24.0	22.9	-	-	50	56.1
185	37/2.52	17.64	37/1.03	350 MCM	22.0	26.5	25.3	-	-	55.7	63.2
240	61/2.25	20.25	61/0.93	500 MCM	25.1	29.9	28.4	-	-	-	71.1
300	61/2.52	22.68	61/1.03	600 MCM	27.9	33.1	31.4	-	-	-	79.2
400	61/2.85	25.65	91/0.93	800 MCM	31.4	36.8	35.1	-	-	-	-
500	61/3.20	28.80	91/1.03	1000 MCM	34.9	40.6	39	-	-	-	-
-	-	-	127/0.93	-	-	-	-	-	-	-	-
630	127/2.52	32.76	127/1.03	1200 MCM	38.9	45.0	43.9	-	-	-	-

CONNECTION

Amphenol AT Series™ Bulk Packs Receptacles, Plugs and Wedges – 2, 3, 4, 6, 8 and 12 Way	33
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Amphenol

SINE SYSTEMS

AMPHENOL AT SERIES™ SPECIFICATIONS

The connector design incorporates an integral latching system that ensures a definitive electrical and mechanical connection. Connector housings are manufactured with a thermoplastic material that is not only durable, but has excellent UV resistance, dielectric/mechanical properties and is environmentally RoHS compliant. The sealing system is comprised of a front and rear silicone, multi-sealing, perimeter against environmental ingress. Contacts are derived from quality copper alloy to ensure an electrically-reliable connection. These are suited for applications demanding higher levels of performance.

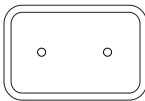
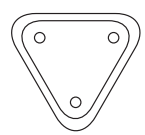
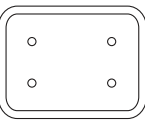
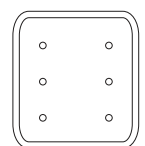
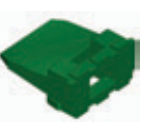
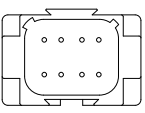
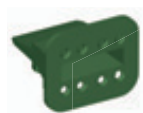
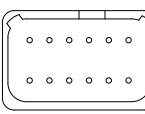
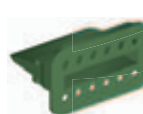
PERFORMANCE CRITERIA

CURRENT CAPACITY	No. 16, 13 amps (max)
WIRE RANGE	No. 16, contacts will accept wire ranges of 0.5mm ² to 2.0mm ² (14-20AWG)
TEMPERATURE	Operating temperature range: -55°C to +125°C at rated current
DIELECTRIC VALUE	Meets or exceeds 1500 volts minimum
FLAME RESISTANCE	All dielectric materials have a flammability rating of UL94 HB or better
DROP TEST	Shall not become detached or loosened when placed at 750mm and dropped to concrete eight times
SHOCK	No latch disengagement or discontinuity shall be the result when subjected to 50 g's in each of three axis (X, Y & Z)
VIBRATION	Continued continuity without degradation to mechanical or physical attributes following vibration (max acceleration 20 g's at Sine sweep of 10–2000Hz)
CONNECTOR TERMINAL RETENTION	When subjected to a direct pull, 0.5mm ² to 2.0mm ² achieves minimum pull-out force of 110 newtons
CONNECTOR RETENTION	A mated connector subjected to a pulling force by the exiting wire bundle at 111 newtons times the number of contacts to a maximum of 444 newtons applying load for 30 seconds
THERMAL SHOCK	Subjected to 10 cycles at -55°C to +125°C with no cracking, chipping or other damage detrimental to the normal operation of the connector
INSULATION RESISTANCE	Insulation resistance at 25°C shall be greater than 20 megohms when 1000 VDC are applied
MATING CYCLE DURABILITY	Following 100 cycles of connection engagement and disengagement, degradation either mechanical or electrical is not evident
CONTACT MILLIVOLT DROP	No. 16 contacts with 16 awg conductor – *100 millivolt drop max at 13 amps test current
ULTRAVIOLET EFFECTS	Test the mated connectors for 1000 hours per ASTM G 154 or ASTM G 153 with 20 hours UV and 4 hours of condensation for each cycle
WATER IMMERSION	A mated connection, properly wired, placed in an oven at +125°C for 1 hour, then placed immediately in a depth of water of 1 meter for 4 hours without loss of electronic performance (IP67 RATED)

PRODUCT MATERIAL

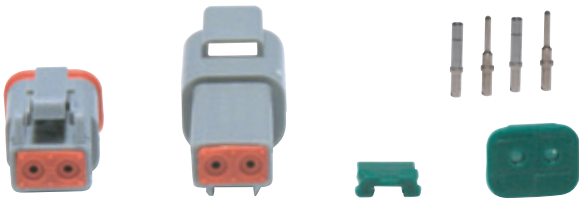
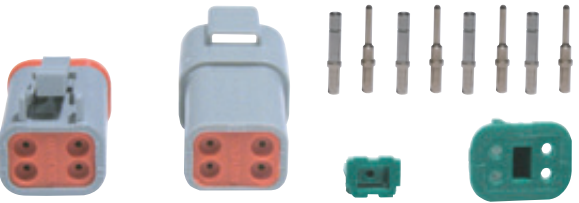
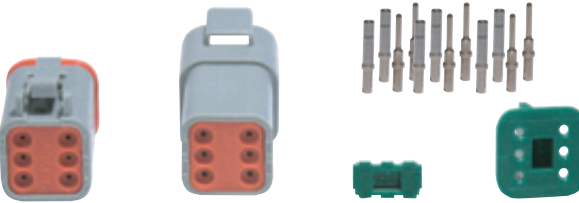
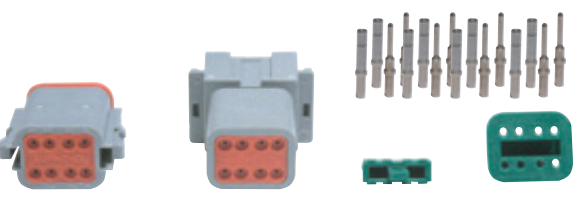
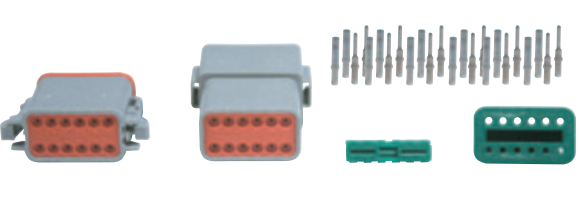
HOUSINGS	Thermoplastic
SEALS	Silicone Elastomer
SECONDARY LOCKS	Thermoplastic
CONTACTS	Nickel Plated

AMPHENOL AT SERIES™ 2, 3, 4, 6, 8 AND 12 WAY CONNECTORS BULK PACKS OF RECEPTACLES, PLUGS AND WEDGES

CODE	RECEPTACLES	WEDGES	PLUGS	WEDGES
2 PIN				
PART NO: 88010270 PACK QTY: 20 AT04-2P	 	88010271 20 	PART NO: 88010272 PACK QTY: 20 AT06-2S	88010273 20 
3 PIN				
PART NO: 88010274 PACK QTY: 20 AT04-3P	 	88010275 20 	PART NO: 88010276 PACK QTY: 20 AT06-3S	88010277 20 
4 PIN				
PART NO: 88010278 PACK QTY: 20 AT04-4P	 	88010279 20 	PART NO: 88010280 PACK QTY: 20 AT06-4S	88010281 20 
6 PIN				
PART NO: 88010282 PACK QTY: 10 AT04-6P	 	88010283 10 	PART NO: 88010284 PACK QTY: 10 AT06-6S	88010285 10 
8 PIN				
PART NO: 88010286 PACK QTY: 10 AT04-08PA	 	88010287 10 	PART NO: 88010288 PACK QTY: 10 AT06-08SA	88010289 10 
12 PIN				
PART NO: 88010290 PACK QTY: 10 AT04-12PA	 	88010291 10 	PART NO: 88010292 PACK QTY: 10 AT06-12SA	88010293 10 

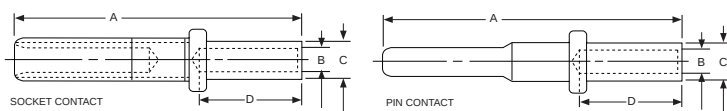
* All receptacles, plugs and wedges on this page come under separate part numbers.

AMPHENOL AT SERIES™ 2, 3, 4, 6, 8 AND 12 WAY CONNECTORS PACKAGED SETS OF RECEPTACLES, PLUGS AND WEDGES

CODE	PART NO: 88010264	2 PIN
	1 x 2 PIN RECEPTACLE (AT04-2P)	
	1 x 2 PIN RECEPTACLE WEDGE	
	1 x 2 PIN PLUG (AT06-2S)	
	1 x 2 PIN PLUG WEDGE	
	2 x SOLID CRIMP PIN CONTACTS (NICKEL)	
	2 x SOLID CRIMP SOCKET CONTACTS (NICKEL)	
		
	PART NO: 88010265	3 PIN
	1 x 3 PIN RECEPTACLE (AT04-3P)	
	1 x 3 PIN RECEPTACLE WEDGE	
	1 x 3 PIN PLUG (AT06-3S)	
	1 x 3 PIN PLUG WEDGE	
	3 x SOLID CRIMP PIN CONTACTS (NICKEL)	
	3 x SOLID CRIMP SOCKET CONTACTS (NICKEL)	
		
	PART NO: 88010266	4 PIN
	1 x 4 PIN RECEPTACLE (AT04-4P)	
	1 x 4 PIN RECEPTACLE WEDGE	
	1 x 4 PIN PLUG (AT06-4S)	
	1 x 4 PIN PLUG WEDGE	
	4 x SOLID CRIMP PIN CONTACTS (NICKEL)	
	4 x SOLID CRIMP SOCKET CONTACTS (NICKEL)	
		
C	PART NO: 88010267	6 PIN
	1 x 6 PIN RECEPTACLE (AT04-6P)	
	1 x 6 PIN RECEPTACLE WEDGE	
	1 x 6 PIN PLUG (AT06-6S)	
	1 x 6 PIN PLUG WEDGE	
	6 x SOLID CRIMP PIN CONTACTS (NICKEL)	
	6 x SOLID CRIMP SOCKET CONTACTS (NICKEL)	
		
	PART NO: 88010268	8 PIN
	1 x 8 PIN RECEPTACLE (AT04-08PA)	
	1 x 8 PIN RECEPTACLE WEDGE	
	1 x 8 PIN PLUG (AT06-08SA)	
	1 x 8 PIN PLUG WEDGE	
	8 x SOLID CRIMP PIN CONTACTS (NICKEL)	
	8 x SOLID CRIMP SOCKET CONTACTS (NICKEL)	
		
	PART NO: 88010269	12 PIN
	1 x 12 PIN RECEPTACLE (AT04-12PA)	
	1 x 12 PIN RECEPTACLE WEDGE	
	1 x 12 PIN PLUG (AT06-12SA)	
	1 x 12 PIN PLUG WEDGE	
	12 x SOLID CRIMP PIN CONTACTS (NICKEL)	
	12 x SOLID CRIMP SOCKET CONTACTS (NICKEL)	
		

AMPHENOL PIN CONTACTS AND SOCKET CONTACTS

MILITARY – STYLE SOLID CRIMP



These Military-Style Solid Crimp Contacts are derived from Nickel to ensure an electrically-reliable connection. For applications demanding higher levels of performance, you can rely on our contact technology. Both Nickel and Gold contacts utilise the simple crimp-style termination, requiring no solder usage. Two sizes of contacts available. RoHS Compliant.

CODE	PART NO.	SIZE/TYPE	A MAX	B MAX	C MAX	D MIN	WIRE GAUGE RANGE	RECOMM'D STRIP LENGTH	PACK QTY
C	88010295 (NICKEL)	16 PIN	20.6	1.67	2.61	6.4	16 & 18	6.4–7.9	100
	88010297 (NICKEL)	16 SOCKET	19.0	1.67	2.61	6.4	16 & 18	6.4–7.9	100

CODE	PART NO.	SIZE/TYPE	A MAX	B MAX	C MAX	D MAX	WIRE GAUGE RANGE	RECOMM'D STRIP LENGTH	PACK QTY
C	88010299 (NICKEL)	16 PIN	20.6	2.6	3.3	6.4	14	6.4–7.9	100
	88010300 (NICKEL)	16 SOCKET	19.0	2.6	3.3	6.4	14	6.4–7.9	100

CODE	PART NO.	SIZE	PACK QTY
C	88010298	SEALING PLUG (SIZE 16)	100



AMPHENOL
PINS AND SOCKETS

AMPHENOL AT SERIES KIT

AMPHENOL AT SERIES KIT	QTY: EACH KIT
PART NO.: QKAT-RK1100	
2 PIN RECEPTACLE	15
2 PIN PLUG	15
2 PIN RECEPTACLE WEDGE	15
2 PIN PLUG WEDGE	15
3 PIN RECEPTACLE	10
3 PIN PLUG	10
3 PIN RECEPTACLE WEDGE	10
3 PIN PLUG WEDGE	10
4 PIN RECEPTACLE	10
4 PIN PLUG	10
4 PIN RECEPTACLE WEDGE	10
4 PIN PLUG WEDGE	10
6 PIN RECEPTACLE	10
6 PIN PLUG	10
6 PIN RECEPTACLE WEDGE	10
6 PIN PLUG WEDGE	10
8 PIN RECEPTACLE	5
8 PIN PLUG	5
8 PIN RECEPTACLE WEDGE	5
8 PIN PLUG WEDGE	5
12 PIN RECEPTACLE	5
12 PIN PLUG	5
12 PIN RECEPTACLE WEDGE	5
12 PIN PLUG WEDGE	5
PIN CONTACTS SOLID CRIMP NICKEL (SIZE 16)	150
SOCKET CONTACTS SOLID CRIMP NICKEL (SIZE 16)	150
SEALING PLUGS (SIZE 16)	20
CONTACT AND WEDGE REMOVAL TOOL	1
HAND CRIMP TOOL	1



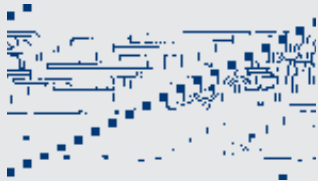
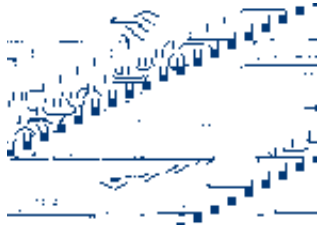
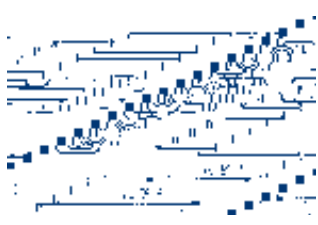
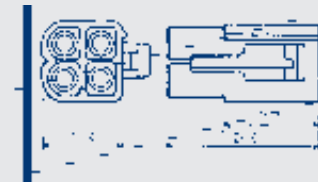
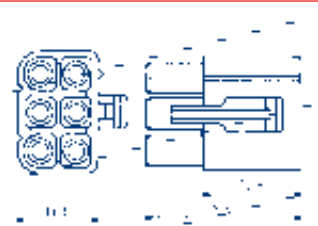
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QKAT-RK1100

MULTI PIN CONNECTORS – 6007 SERIES

There are many special features of the 6007 connector series that exceed standard connector design practices. Rated at up to 300V AC/DC, these compact connectors will withstand 1,500V AC/minute, and operate within a temperature range of -25°C to 105°C. Polarised to ensure correct mating, a positive locking latch also automatically engages at mating, and the option exists for in line or hand fitted panel mounted installation. The complete cell housing system fully covers and protects the contacts. The high reliability 2mm O.D. crimp contacts, are easily snapped into the housings by hand, with two sizes covering a wide wire range from 0.2 to 2.0mm². Maximum contact resistance is limited to 10 ohm.

CODE	POLES	VOLTAGE RATING	CURRENT RATING	RECEPTACLE HOUSING (FOR PIN CONTACT)	PLUG HOUSING (FOR SOCKET CONTACT)
C				6007RH02	6007PH02
	2	300V	15A		
				6007RH03	6007PH03
	3	300V	14A		
				6007RH04	6007PH04
	4	300V	13A		
				6007RH06	6007PH06
	6	300V	12A		
				6007RH12	6007PH12
	12	300V	9A		

CONTACTS – PINS

CODE	PART NO. PIN	PART NO. SOCKET	WIRE mm ²	WIRE AWG	PACK QTY
C	7005LT1	7006LT1	0.5–2.0	20–14	100
	7005LT2	7006LT2	0.2–0.5	24–20	100

HOUSINGS

CODE	PART NO. RECEPT	PART NO. PLUG	POLES	CURRENT RATING AC	PACK QTY
C	6007RH02	6007PH02	2	15	50
	6007RH03	6007PH03	3	14	50
	6007RH04	6007PH04	4	13	50
	6007RH06	6007PH06	6	12	50
	6007RH12	6007PH12	12	9	50

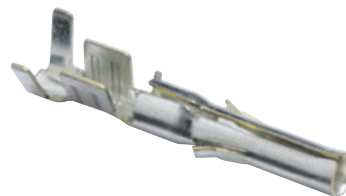
COMPLETE 6007 SERIES CONNECTORS

Complete connectors consist of both housings and sufficient contacts to build a connector.

CODE	PART NO. RECEPT	POLES RATING AC	VOLTAGE	CURRENT AMPS	PACK QTY
C	6007-1	1	600	15	1 set
	6007-2	2	300	15	1 set
	6007-3	3	300	14	1 set
	6007-4	4	300	13	1 set
	6007-6	6	300	12	1 set
	6007-9	9	300	10	1 set
	6007-12	12	300	9	1 set
	6007-15	15	300	9	1 set



CONTACTS – PINS



CONTACT – SOCKET



6007-2



6007-4



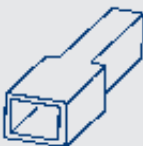
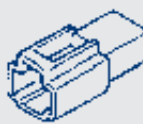
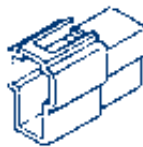
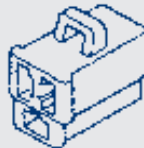
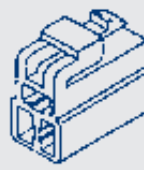
6007-9



6007-12

MULTI PIN CONNECTORS – QK SERIES

These connectors conform to the common 250 series, 6.0mm (J.A.S.O.) and 6.3mm (European standards). All connectors are polarised to prevent incorrect mating. A positive locking latch automatically engages at mating for connectors with an "L" suffix. Housings with a "T" suffix also feature panel mounting tabs. Latch type housings and non-latch housings can be mated if required. The tin plated crimp contacts, are easily snapped into the housings by hand. Two sizes cover a wide wire range from 0.8 to 3.0mm².

CODE	CIRCUITS	STANDARD	STANDARD	REVERSE	REVERSE	PACK QTY
		QK1A	QK1B	QK1ASL	QK1BSL	
	1					10
		QK2A	QK2B	QK2ASL	QK2BSL	
	2					10
		QK3AL	QK3BL	QK3ASL	QK3BSL	
	3					10
		QK4AL	QK4BLT*	QK4ASL	QK4BSL	
	4					10
		QK6AL	QK6BLT*	QK6ASL	QK6BSL	
	6					10
		QK8AL	QK8BLT	QK8ASL	QK8BSL	
	8					10

* These housings can be screw panel mounted via their mounting ear feature.



Note: The plug housing is also referred to as the female housing, as it accepts the female terminal. The receptacle housing is also referred to as the male housing, as it accepts the male tab terminal.

QK CONNECTOR CONTACTS – RECEPTACLES

CODE	PART NO. RECEPT	WIRE mm ²	MATERIAL	FINISH	PACK QTY
C	604502BL2	0.8–1.5	BRASS	TIN	100
	604501BL2	1.5–3.0	BRASS	TIN	100
	605001BL2*	0.8–1.3	BRASS	TIN	100

* This terminal is required and suits QK1BSL housing only.

QK CONNECTOR CONTACTS – TABS

CODE	PART NO. RECEPT	WIRE mm ²	MATERIAL	FINISH	PACK QTY
C	605502BL2	0.8–1.5	BRASS	TIN	100
	605501BL2	1.5–3.0	BRASS	TIN	100

QK CONNECTOR HOUSINGS

CODE	PART NO. RECEPT	PART NO. PLUG	POLES	LATCH	PACK QTY
C	QK1ASL	QK1BSL	1	YES	10
	QK1A	QK1B	1	NO	10
	QK2A	QK2B	2	NO	10
	QK2ASL	QK2BSL	2	YES	10
	QK3AL	QK3BL	3	YES	10
	QK3ASL	QK3BSL	3	YES	10
	QK4AL	QK4BLT*	4	YES	10
	QK4ASL	QK4BSL	4	YES	10
	QK6AL	QK6BLT*	6	YES	10
	QK6ASL	QK6BSL	6	YES	10
	QK8AL	QK8BLT*	8	YES	10
	QK8ASL	QK8BSL	8	YES	10

*These housings can be screw panel mounted via their mounting ear feature.

COMPLETE QK SERIES CONNECTORS

Complete connectors consist of both housings and sufficient contacts to build a connector.

CODE	PART NO.	POLES	LATCH	PACK QTY
C	QK1	1	YES	1
	QK2	2	NO	1
	QK3	3	YES	1
	QK4	4	YES	1
	QK6	6	YES	1
	QK8	8	YES	1



CONTACT – RECEPTACLE



CONTACTS – TABS



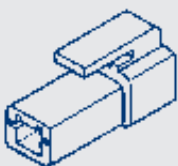
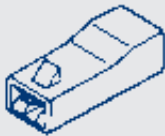
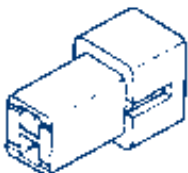
QK COMPLETE SET

MULTI PIN CONNECTORS – QL SERIES

These .312 (or 8mm) Series connectors are polarized to prevent incorrect mating. A positive locking latch automatically engages at mating for the single circuit connector. The standard connector used in fusible links. The tin plated crimp contacts, are easily snapped into the housings by hand. Applicable terminal wire range is 1.3 to 2.0mm².



Note: The plug housing is also referred to as the female housing, as it accepts the female terminal. The receptacle housing is also referred to as the male housing, as it accepts the male tab terminal.

CODE	RECEPTACLE HOUSING (FOR MALE CONTACT)	PLUG HOUSING (FOR FEMALE CONTACT)
C	QL1A 	QL1B 
	QL2A 	QL2B 

CONTACTS – RECEPTACLES

CODE	PART NO. RECEPT	WIRE mm ²	MATERIAL	FINISH	PACK QTY
C	66047BL2	1.3–2.0	BRASS	TIN	100



CONTACT – RECEPTACLE

CONTACTS – TABS

CODE	PART NO. RECEPT	WIRE mm ²	MATERIAL	FINISH	PACK QTY
C	66057BL2	1.3–2.0	COMPOSITE	TIN	100
	605702BL0	0.8–1.3	COMPOSITE	TIN	100



CONTACTS – TABS

HOUSINGS

CODE	PART NO. RECEPT	POLES	LATCH	CONNECTOR LENGTH (MM)	PACK QTY
C	QL1A	1	YES	30	10
	QL2A	2	YES	34	10
CODE	PART NO. PLUG	POLES	LATCH	CONNECTOR LENGTH (MM)	PACK QTY
C	QL1B	1	YES	34	10
	QL2B	2	YES	30	10

COMPLETE QL SERIES CONNECTORS

Complete connectors consist of both housings and sufficient contacts to build a connector.

CODE	PART NO.	POLES	LATCH	PACK QTY
C	QL1	1	YES	1
	QL2	2	NO	1



QL SERIES CONNECTORS

AMP CONNECTORS – FASTON CONNECTORS

Similar type connector range to the QK Series using .250 tab and receptacle terminals. This connector is common on equipment manufactured in Europe and USA. (eg: buses, trucks, vending equipment.)

CODE	NO. OF CIRCUITS	RECEPTACLE HOUSING (FOR MALE TAB)	PLUG HOUSING (FOR FEMALE CONTACT)	PACK QTY
C		QK1A (180916)	QK1B (180905)	
	1			10
		180924	180923	
	2			50
		180901	180900	
	4			50
		180906	180904	
	6			50
		280430	163007	
	8			50

CONTACTS – RECEPTACLES

CODE	PART NO. RECEPT	WIRE mm ²	MATERIAL	FINISH	PACK QTY
C	42238-1	0.8–2.0	BRASS	NONE	500

CONTACTS – TABS

CODE	PART NO. RECEPT	WIRE mm ²	MATERIAL	FINISH	PACK QTY
C	42241-1	0.8–2.0	BRASS	NONE	250

HOUSINGS

CODE	PART NO. RECEPT	POLES	PACK QTY
C	180924	2	50
	180901	4	50
	180906	6	50
	280430	8	50
CODE	PART NO. PLUG	POLES	PACK QTY
C	180923	2	50
	180900	4	50
	180904	6	50
	163007-0	18	50



CONTACT – RECEPTACLE



CONTACTS – TABS

WEATHER PACK SERIES – SEALED CONNECTORS

Weather Pack connectors are made for signal level circuits in harsh environmental conditions where even a small degradation in the connection may be critical. Special materials and seals are used to allow the connector to withstand conditions of extreme temperature, moisture and even submersion. The connector employs a pin and sleeve-type terminal. The pin can flex outward to maintain contact with the sleeve and is therefore called a flexpin. The sleeve has a laplock to reduce relaxation. Rated at up to 20 amps DC, the housings incorporate a positive locking latch and a secondary lock on the contacts. The one (1) to six (6) circuit housings are designed to be used in line or mounted by insertion of a Weather Pack mounting clip. The twenty-two (22) circuit connector is designed to be bulkhead mounted. Male plugs mate with male pins.

WEATHER PACK HOUSINGS

CODE	NO. OF CIRCUITS	FEMALE PLUG	MALE PLUG	PACK QTY
C		12015791	12010996	
	1			10
		12015792	12010973	
	2			50
		12015793	12010717	
	3			50
		12015797	12010974	
	4			50
		12015798	12015024	
	4			50
		12034342	12065158	
	5			50
		12015799	12010975	
	6			50
		12020991	12020005	
	22*			50

* Both plugs each require 2 secondary locks, part number 12010852.
Note: See page 43 for contacts

CONTACTS – PINS

CODE	PART NO. PIN	WIRE mm ²	WIRE AUTO	PACK QTY
C	12089040L	1	3	100
	12124582L	2	4	100
	12124587L	3	5	100
	12089307L	0.35	-	100

CONTACTS – SOCKETS

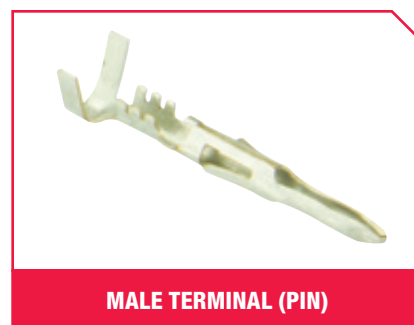
CODE	PART NO. SOCKET	WIRE mm ²	WIRE AUTO	PACK QTY
C	12089188L	1	3	100
	12124580L	2	4	100
	12124581L	3	5	100
	12020801L	0.35	-	100

HOUSINGS

CODE	PART NO. RECEPT	POLES	TYPE	LATCH	PACK QTY
C	12015791	1	FLAT	YES	50
	12015792	2	FLAT	YES	50
	12015793	3	FLAT	YES	50
	12015797	4	FLAT	YES	50
	12015798	4	SQUARE	YES	50
	12034342	5	FLAT	YES	50
	12015799	6	FLAT	YES	50
	12020991	22	ROUND	YES	1
	12010852	-	SECONDARY LOCK	-	10
CODE	PART NO. PLUG	POLES	TYPE	LATCH	PACK QTY
C	12010996	1	FLAT	YES	50
	12010973	2	FLAT	YES	50
	12010717	3	FLAT	YES	50
	12010974	4	FLAT	YES	50
	12015024	4	SQUARE	YES	50
	12065158	5	ROUND	YES	50
	12010975	6	FLAT	YES	50
	12020005	22	ROUND	YES	1
	12010852	-	SECONDARY LOCK	-	10

WEATHER PACK SEALS AND CAVITY PLUG

CODE	PART NO.	WIRE SIZE	COLOUR	MATERIAL	PACK QTY
C	12015899	1.29–2.06	RED	SILICONE	100
	12015323	2.03–2.80	GREEN	SILICONE	100
	12010293	2.81–3.49	GREY	SILICONE	100
	12015193	3.50–4.21	BLUE	SILICONE	100
	12010300	CAVITY PLUG	GREEN	SILICONE	100



COMPLETE WEATHER PACK CONNECTORS

Complete connectors consist of both housings and sufficient contacts to build two (2) connectors. Contacts and seals supplied suit 2mm² (4–5mm auto).

CODE	PART NO. PIN	POLES	TYPE	PACK QTY
C	2C1CW	1	FLAT	2
	2C2CW	2	FLAT	2
	2C3CW	3	FLAT	2
	2C4CIW	4	FLAT	2
	2C4CSW	4	SQUARE	2
	2C5CW	5	ROUND	2
	2C6CW	6	FLAT	2
	1C22CW	22	ROUND	1



FUEL INJECTION/REGULATOR CONNECTOR

Two, three and four circuit housings complete with contacts and rubber boot for sealing, in convenient packaged presentation. Components are available outside of kit form in larger pack sizes.

COMPLETE CONNECTOR KITS

CODE	PART NO.	NO. OF CIRCUITS	PACK QTY
C	BRP1	2	1
	BRP3	3	1
	BRP4	4	1



COMPONENTS

CODE	PART NO.	DESCRIPTION	PACK QTY
C	0-0925590	TERMINAL	100
	827551-3	2 CIRCUIT PLUG	50
	1280703026	2 CIRCUIT BOOT	10
	1-827578-1	3 CIRCUIT PLUG	10
	MT-4BV	4 CIRCUIT PLUG	10
	859G547-B	3 & 4 CIRCUIT BOOT	10



TEMPERATURE SENDER CONNECTOR

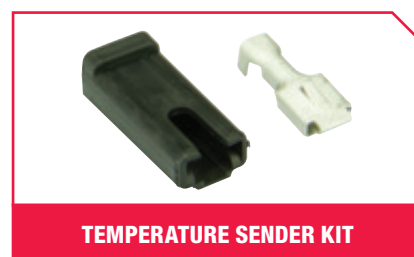
Single circuit housing with cutaway area for mounting onto sender units complete with correct terminal contact that features sprung mating nib. 10 of each terminal and housing in each kit. Components are available outside of kit form in larger pack sizes.

COMPLETE KIT

CODE	PART NO.	DESCRIPTION	PACK QTY
C	TS KIT	TEMPERATURE SENDER KIT	10

COMPONENTS

CODE	PART NO.	DESCRIPTION	PACK QTY
C	2962965	HOUSING	50
	605001BL2	TERMINAL	100



RELAY BASE CONNECTOR

Packard relay base has 5 unique terminal contacts that prevent poor terminal to relay contact area connections due to vibration and fatigue. The relay base itself can be linked up together and enables itself to be mounted to firewalls etc. 1 per kit. Components are available outside of kit form in larger pack sizes.

RELAY BASE KIT

CODE	PART NO.	PACK QTY
C	PRBC	1

RELAY BASE COMPONENTS

CODE	PART NO.	CONTENTS	PACK QTY
C	12033871	HOUSING	50
	12015865L	TERMINALS	100

HEADLIGHT CONNECTOR

HLK KIT

CODE	PART NO.	PACK QTY
C	HLK	10

HLK COMPONENTS

CODE	PART NO.	CONTENTS	PACK QTY
T	610001BL0	TERMINALS	100

RELAYS

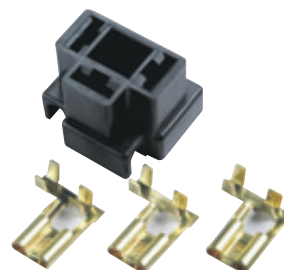
CODE	PART NO.	DESCRIPTION	AMP RATING	PACK QTY
PC	REL2512	12 VOLT 5 PIN	40	10
	REL2524	24 VOLT 5 PIN	20	1

SWITCHES

CODE	PART NO.	DESCRIPTION	AMP RATING	MOUNTING HOLE mm	PACK QTY
PC	245	MOMENTARY (ON) HEAVY DUTY PUSH BUTTON, WATERPROOF	60A AT 12V	16	1
	DS1	ADJUSTABLE DOOR/BONNET/ALARM SWITCH	10A AT 12V	10	1
	DS2	UNIVERSAL DOOR/ALARM, CUT TO LENGTH	10A AT 12V	10	10



RELAY BASE KIT – PRBC



HLK



REL2512



SWITCHES

SCREW CONNECTORS

CARROLL offer a range of different connector types to suit your specific application needs. From one to twenty-four circuits, sealed and unsealed, in line and panel mount, AC/DC and a wide range of current ratings.

NEUTRAL LINKS/EARTH BARS

CODE	PART NO.	DESCRIPTION	PACK QTY
C	NL06	6 WAY WITH BASE	5
	NL12	12 WAY WITH BASE	5
	NL18	18 WAY WITH BASE	5



NEUTRAL LINKS

INSULATED SCREW CONNECTORS

The clear plastic housings of **CARROLL** screw connectors allow easy, error free connections, for up to a maximum of 2 x 6mm² cables.

CODE	PART NO.	NUMBER OF SCREWS	AMP RATING	PACK QTY
C	CSC1	1	32	100
	CSC2	2	32	100



SCREW CONNECTOR

STRIP TERMINAL BLOCKS

CARROLL offers a defined range of German made high quality 12 way terminal strips, designed for performance in low voltage applications.

- Made of flexible plastic, easy to separate
- Flame retardant with high-set captive screws
- Heat resistance up to approx. 80°C
- German designed and manufactured DC Voltage Strip Terminal Block

TERMINAL BLOCK

CODE	PART NO.	NUMBER OF POLES	WIRE SIZE mm ²	LENGTH mm	PACK QTY
C	1102	12	2.5	94	10
	1122	12	4-6	111	10
	1142	12	10	125	10
	1152	12	16	180	10



12 WAY TERMINAL STRIP

QUICK CONNECTOR STRIPS

CODE	PART NO.	POLES	SUIT TAB	LENGTH mm	PACK QTY
C	885	2 INTO 1	6.35 x 0.8	54	10
	886	12	6.35 x 0.8	27.8	10



QUICK CONNECTOR STRIPS – 885



QUICK CONNECTOR STRIPS – 886

SOLDER SLEEVE DEVICES

Solder sleeves are unique devices designed to solder ground leads to braided screened cables, and join cables together. The solder sleeves are a length of clear heat shrink tubing, with a specially developed low temperature pre-fluxed solder ring in the centre. The ends of the tubing have rings of a thermoplastic sealant. With the simple application of a heat gun, these devices quickly solder, environmentally seal and insulate wire connections.

CODE	PART NO.	WIRE OD RANGE mm	PACK QTY
C	CWT-3801	0.8–1.5	100
	CWT-3802	1.3–2.0	100
	CWT-3803	1.6–2.7	100
	CWT-3805	2.1–4.3	100
	CWT-3807	4.4–6.9	100
	CWT-3809	6.4–8.7	50
	CWT-3811	7.7–10.9	50



SOLDER SLEEVE

MINI ALLIGATOR CLIPS

Alligator clips have a myriad of uses in laboratories, workshops and manufactured products. **CARROLL** alligator clips are supplied complete with colour coded PVC insulators.

CODE	PART NO. BLACK	PART NO. RED	LENGTH mm	CURRENT AMPS	PACK QTY
C	AC2B	AC2R	42	3	10
	AC3B	AC3R	50	5	10
	AC4B	AC4R	68	10	10
	AC5B	AC5R	80	20	10



MINI ALLIGATOR CLIP

SY SERIES CONNECTORS

These DC rated two circuit connectors are available in 50, 175 and 350 amp current ratings. The connectors feature a special self cleaning contact design, that resists arcing by keeping the conductive surfaces clean and free of erosion. The plugs are especially suitable for electric forklifts, battery charging, jumper leads, winch and battery connections.

CODE	PART NO.	POLES	AMP RATING	MAXIMUM WIRE OD	PACK QTY
TB	SY50	2	50	5.46mm	1
	SY175	2	175	10.74mm	1
	SY350	2	350	12.90mm	1



SY SERIES CONNECTORS

Harnessflex

SPECIALIST CONDUIT SYSTEMS



HARNESSFLEX SPECIALIST CONDUIT SYSTEMS

HARNESSFLEX CONDUIT SYSTEMS COMBINE INNOVATIVE DESIGN WITH PRECISION MANUFACTURING TO OFFER CUSTOMERS A BROAD RANGE OF CABLE PROTECTION PRODUCTS AND SOLUTIONS.

Our range includes Conduits, Sealed Fittings and Hinged Fittings. The Harnessflex system performs in a wide variety of environments from high temperature to freezing subzero conditions. Whether used individually or in combination, Harnessflex products provide protection against not only liquid and dust ingress, but also mechanical abrasion and corrosive salts.

Specifically designed to protect critical electrical and electronic wiring assemblies in heavy-duty commercial applications such as:

- Fuel Tankers
- Trucks & Buses
- Construction & Mining Vehicles
- Dangerous Goods Vehicle (ADR approved)
- Marine Vessels
- Security & Data
- Critical Power
- Agricultural Vehicles



PROTECTION

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CARROLL HEAT SHRINK TUBING

The wide range of **CARROLL** heat shrinkable products ensure that whether you are insulating, colour coding, strain relieving, protecting or sealing, the right product is available to do the job.

GRADE: HS – GENERAL PURPOSE TUBING

This flexible **CARROLL** heat shrink tubing is manufactured from flame retardant, irradiated crosslinked, modified polyolefin. Recognised by Underwriters Laboratories (UL) and Canadian Standards (CSA), the tubing exhibits a VW-1 flame retardant rating, (except clear), is rated at 600V and has an operating temperature range of -25°C to 125°C. Shrink temperature is 70-125°C and the shrink ratio is 2:1. Designed to insulate, colour code, strain relieve and provide abrasion and mechanical protection. Tubing is supplied in either 1.2m (4 ft) lengths or full spools. A complete range of diameters is available from 1mm to 102mm.



HS – GENERAL PURPOSE TUBING

GRADE: DWL – DUAL WALL TUBING

CARROLL Dual Wall Tubing is manufactured from a co-extrusion of flame-retardant, flexible, 3:1 shrink ratio heat shrinkable tubing and a special adhesive lining. When the tubing is heated, the adhesive lining melts and flows to form a positive environmental seal. The lining adheres to the outer tubing and the surface below, creating an excellent barrier to moisture penetration.

Typical applications include the sealing and insulation of electrical splices, terminations, connector backshells, battery terminals and repairs to damaged cable. Due to the tubing's flexibility, high shrink ratio and the wide variety of surfaces to which the adhesive will bond, the product is excellent in areas requiring corrosion and mechanical protection.

3:1 shrink ratio allows for insulation and sealing of irregular shapes. Dual wall provides increased mechanical protection while maintaining flexibility when installed. Adhesive bonds to a wide variety of plastics, rubber, and metals, including polyethylene, neoprene and steel.



DWL – DUAL WALL TUBING

GRADE: HWL – HEAVY WALL TUBING

CARROLL Heavy Wall Tubing is manufactured from chemically cross linked polyolefin heat shrinkable tubing with a shrink ratio greater than 2.5:1, and a special adhesive lining. When the tubing is heated, the adhesive lining melts and flows to form a positive environmental seal. The lining adheres to the outer tubing and the surface below, creating an excellent barrier to moisture penetration.

The tubing exhibits excellent insulation capability and is resistant to cracking.

Typical applications include the sealing and insulation of outdoor and indoor electrical power joints, terminations, and repairs to damaged cable up to 1Kv.



HWL – HEAVY WALL TUBING

HS GRADE GENERAL PURPOSE, THIN WALL TUBING

CARROLL General Purpose Thin Wall tubing is designed to insulate, colour code, strain relieve and provide abrasion and mechanical protection.

Manufactured from a 2:1 shrink ratio, flexible, flame retardant, irradiated crosslinked, heat-shrinkable, modified polyolefin tubing.

LENGTHS

CODE	PART NO.	SUPPLIED ID mm	APPROX SUPPLIED LAYFLAT	LENGTH
P	HSL1	1.5+ - 0.3	-	1.22m
	HSL1.5	2.0+ - 0.3	-	1.22m
	HSL2	2.5+ - 0.3	-	1.22m
	HSL3	3.5+ - 0.4	-	1.22m
	HSL5	5.5+ - 0.4	8	1.22m
	HSL6	6.5+ - 0.4	11	1.22m
	HSL6GY	6.5+ - 0.4	11	1.22m
	HSL10	10.8+ - 0.5	16	1.22m
	HSL10GY	10.8+ - 0.5	16	1.22m
	HSL13	13.5+ - 0.5	20	1.22m
	HSL13GY	13.5+ - 0.5	20	1.22m
	HSL16 (BK, RD)	16.5+ - 0.5	-	1.22m
	HSL19	21.5+ - 0.7	31	1.22m
	HSL19GY	21.5+ - 0.7	31	1.22m
	HSL25	25.6+ - 0.7	39	1.22m
	HSL25GY	25.6+ - 0.7	39	1.22m
	HSL38	41.5+ - 0.7	60	1.22m
	HSL38GY	41.5+ - 0.7	60	1.22m
	HSL51	51.5+ - 0.7	80	1.22m
	HSL76	≥80	120	1.22m
	HSL102	≥100	160	1.22m



(HS) GENERAL PURPOSE HEATSHRINK

COLOUR	SUFFIX
BLACK	BK
BLUE	BL
RED	RD
WHITE	W
GREEN	G
YELLOW	Y
CLEAR	C
GREEN/YELLOW	GY

COLOUR CODE TABLE
FOR HEATSHRINK

SPOOLS

CODE	PART NO.	SUPPLIED ID MM	APPROX SUPPLIED LAYFLAT	SPOOL LENGTH
P	HS1.5 (BK,C)	2.0+ - 0.3	-	200m
	HS1.5 (RD,W,Y)	2.0+ - 0.3	-	304m
	HS2	2.5+ - 0.3	-	200m
	HS2G	2.5+ - 0.3	-	100m
	HS3	3.5+ - 0.4	-	200m
	HS5	5.0+ - 0.4	8	100m
	HS6	6.5+ - 0.4	11	50m
	HS6GY	6.5+ - 0.4	11	61m
	HS6 (Y)	6.5+ - 0.4	11	100m
	HS10	10.8+ - 0.5	16	50m
	HS10GY	9.5+ - 0.5	16	61m
	HS13	12.5+ - 0.5	20	50m
	HS13GY	12.5+ - 0.5	20	61m
	HS16	16.5+ - 0.6	25	50m
	HS19	19.0+ - 0.7	31	50m
	HS19GY	19.0+ - 0.7	31	61m
	HS25	25.6+ - 0.7	39	50m
	HS25GY	25.6+ - 0.7	39	61m
	HS38 (BK,BL,RD,W)	41.5+ - 0.7	60	50m
	HS38GY	41.5+ - 0.7	60	30m
	HS38 (G,Y)	41.5+ - 0.7	60	38m
	HS38 (C)	41.5+ - 0.7	60	30m
	HS51(BK,BL,RD)	51.5+ - 0.7	80	25m
	HS76	≥80	120	25m
	HS102	≥100	160	25m



HS SPOOLS

DWL GRADE DUAL WALL TUBING

CARROLL Dual Wall tubing is manufactured from a co-extrusion of flame-retardant, flexible, **3:1 shrink ratio** heat shrinkable tubing with a special adhesive lining. When the tubing is heated, the adhesive lining melts and flows to form a positive environmental seal. The lining adheres to the outer tubing and the surface below, creating an excellent barrier to moisture penetration. Typical applications include the sealing and insulation of electrical splices, terminations, connector backshells, battery terminals and repairs to damaged cable. Due to the tubing's flexibility, high shrink ratio and the wide variety of surfaces to which the adhesive will bond, the product is excellent in areas requiring corrosion and mechanical protection.

LENGTHS

CODE	PART NO.	SUPPLIED ID mm	COLOUR	LENGTH
PA	DWL3/1	3.5+ – 0.3	BLACK	1.22m
	DWL6/2	6.8+ – 0.4	BLACK	1.22m
	DWL9/3	9.9+ – 0.4	BLACK	1.22m
	DWL12/4	13.2+ – 0.5	BLACK	1.22m
	DWL12/4R	13.2+ – 0.5	RED	1.22m
	DWL19/6	19.6+ – 0.5	BLACK	1.22m
	DWL19/6R	19.6+ – 0.5	RED	1.22m
	DWL24/8	25.4+ – 0.8	BLACK	1.22m
	DWL24/8R	25.4+ – 0.8	RED	1.22m
	DWL40/13	40.0+ – 0.8	BLACK	1.22m



SPOOLS

CODE	PART NO.	SUPPLIED ID mm	COLOUR	SPOOL LENGTH
PA	DW3/1	3.5+ – 0.3	BLACK	200m
	DW6/2	6.8+ – 0.4	BLACK	100m
	DW9/3	9.9+ – 0.4	BLACK	50m
	DW12/4	13.2+ – 0.5	BLACK	25m
	DW19/6	19.6+ – 0.5	BLACK	25m
	DW24/8	25.4+ – 0.8	BLACK	25m
	DW24/8R	25.4+ – 0.8	RED	25m
	DW40/13	40.0+ – 0.8	BLACK	25m



HWL HEAVY WALL ADHESIVE LINED TUBING

Heavy Wall tubing provides a fast, clean, permanent, safe and cost effective method of sealing, insulating and protecting cable joints and terminations in underwater or underground applications. Voltage rated for 0.6/1kv applications, the tubing has a high variable shrink ratio, is UV resistant, and operates within a -55°C to +90°C temperature range. The polyamide - based adhesive provides a high bond strength and protection against moisture, aggressive fluids and corrosion.

LENGTHS

CODE	PART NO.	SUPPLIED ID mm	RECOVERED ID mm	COLOUR	LENGTH
PA	HWL12/5	12	5	BLACK	1.22m
	HWL20/8	20	8	BLACK	1.22m
	HWL30/12	30	12	BLACK	1.22m
	HWL40/17	40	17	BLACK	1.22m
	HWL52/20	52	20	BLACK	1.22m
	HWL68/26	68	26	BLACK	1.22m
	HWL80/30	80	30	BLACK	1.22m
	HWL102/44	102	44	BLACK	1.22m
	HWL122/52	122	52	BLACK	1.22m
	HWL146/58	148	58	BLACK	1.22m



HIGH SHRINK RATIO, THICK ADHESIVE LINED TUBING

This adhesive lined heat shrink tubing has a high shrink ratio, in excess of 4:1, specially designed for environmental sealing of terminations and splices. It is relatively rigid when shrunk and features extra adhesive. The broad operating temperature range of -40°C to 130°C makes the tubing especially suitable for use in higher temperature environments eg; engine compartments etc.

LENGTHS

CODE	PART NO.	SUPPLIED OD mm	AFTER HEATING OD mm	COLOUR	LENGTH
PA	HSRL1	5.72	1.27	BLACK	1.22m
	HSRL2	7.44	1.65	BLACK	1.22m
	HSRL3	10.85	2.41	BLACK	1.22m
	HSRL4	17.78	4.45	BLACK	1.22m



HIGH RATIO HEAT SHRINK

HEAT SHRINK TAPE

CARROLL Heat Shrink Tape is an easy to work with, flexible tape that exhibits both the advantages of heat shrink tubing and a self-amalgamating tape. A simple and economical method of repairing damage to cable insulations. Easy forming of T joints, multiple breakouts or junctions. Effective sealing of complex shapes. The tape is wound loosely ensuring tape overlaps by approximately 15mm or 2/3rds of the tape width, then heat and shrink. Further layers can then be applied until desired thickness is achieved. Operating Temperature -55 to 105°C.

CODE	PART NO.	COLOUR	LENGTH	WIDTH mm	THICKNESS mm
PB	HST25BK	BLACK	5	25	1



HEAT SHRINK TAPE

HEAT SHRINK KITS

An assortment of popular sizes, red and black general purpose heat shrink tubing supplied in a boxed grab kit.

CODE	PART NO.	SIZE RANGE	LENGTHS mm	COLOURS	TOOL QTY
P	HSKB	2-25mm	ASSORTED	BLACK & RED	1

HEAT SHRINKABLE END CAPS – ADHESIVE LINED

CARROLL heat shrinkable end caps are hot melt adhesive lined and are used to provide protection to cable ends against oxidation, ozone, UV and more.

Continuous operating temperature: -45°C to 105°C

Shrink temperature: start 110°C, fully recovered 130°C

CODE	PART NO.	SUPPLIED ID mm	RECOVERED ID mm	PACK QTY
PA	EC24/11	25	11	1
	EC33/18	35	17	1
	EC50/27	55	26	1
	EC70/38	75	30	1
	EC100/48	100	40	1
	EC120/59	120	57	1



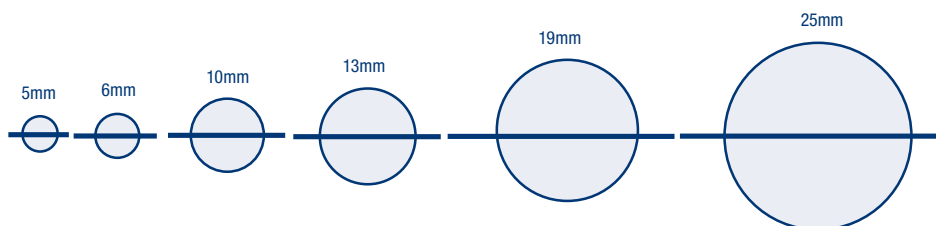
HEAT SHRINK KIT



END CAPS

SIZE SELECTION CHART

To identify ordering diameter, match flattened tubing against the horizontal line.



HEAT SHRINK BUS BAR SELECTION CHART

Bus Bar Selection Chart For Applicable Heat Shrink Diameters

CODE	DEPTH	WIDTH	12mm	19mm	25mm	38mm	51mm	76mm	102mm	125mm
P	-	-	1/2	3/4	1	1.5	2	3	4	5
	3.2mm	1/8	HS13	HS19	HS25	HS38	HS51	HS76	HS102	HS102
	4.8mm	3/16	HS13	HS19	HS25	HS38	HS51	HS76	HS102	HS102
	6.4mm	1/4	-	HS19	HS25	HS38	HS51	HS76	HS102	HS102
	9.5mm	3/8	-	-	-	HS38	HS51	HS76	HS102	HS102
	13mm	1/2	-	-	-	-	HS51	HS76	HS102	HS102

Note: Bends may require larger diameter heat shrink. Pre-heat bus bar before applying tubing for a more even finish.

RECOMMENDED HEATSHRINK FOR XLPE AND PYROLEX CABLE APPLICATION

CODE	CABLE SIZE mm	PVC GLAND FOR XLPE	HEAT SHRINK FOR XLPE	METAL GLAND FOR PYROLEX CABLE	LOCK NUT FOR METAL GLAND	HEAT SHRINK FOR PYROLEX
P	16	CG16	HSL13	MG20	LNM/M20	HSL13
	25	CG20	HSL13	MG25	LNM/M25	HSL13
	35	CG20	HSL13	MG25	LNM/M25	HSL19
	50	CG20	HSL13	MG25	LNM/M25	HSL19
	70	CG25	HSL19	MG32	LNM/M32	HSL19
	95	CG25	HSL19	MG32	LNM/M32	HSL19
	120	CG32	HSL19	MG40	LNM/M40	HSL25
	150	CG32	HSL25	MG40	LNM/M40	HSL25
	185	CG40	HSL25	MG40	LNM/M40	HSL25
	240	CG40	HSL38	MG40	LNM/M40	HSL38
	300	CG40	HSL38	MG50	LNM/M50	HSL38
	400	CG50	HSL38	MG50	LNM/M50	HSL38
	500	CG50	HSL38	MG63	LNM/M63	HSL38
	630	CG63	HSL51	MG63	LNM/M63	HSL51

NYLON SNAP BUSHING

CARROLL snap bushings are moulded black UL approved Nylon6/6, and feature a flammability rating of 94V-2. The snap bushings provide a quick, simple and low cost means of protecting cables, hoses, ropes etc, from damage from raw edged holes in metal chassis.

CODE	PART NO.	COLOUR	MOUNTING HOLE mm	ID mm	PACK QTY
BA	SB08	BLACK	7.9	5.2	100
	SB10	BLACK	9.5	6.3	100
	SB13	BLACK	13.0	8.2	100
	SB16	BLACK	15.9	12.2	100
	SB19	BLACK	18.9	14.3	100
	SB22	BLACK	22.0	17.3	100
	SB26	BLACK	25.1	19.1	100
	SB30	BLACK	29.7	24.1	100
	SB38	BLACK	38.1	29.0	100
	SB45	BLACK	43.6	35.4	100
	SB50	BLACK	50.8	41.6	100



RUBBER GROMMET AND HOLE PLUG

CODE	PART NO.	TYPE	MOUNTING HOLE mm	INTERNAL HOLE mm	PANEL THICKNESS mm	PACK QTY
BA	GR15	GROMMET	19.0	11	1.6	20
	GRP194	HOLE PLUG	25.4	SOLID	1.6	20



NYLON IP68 RATED CABLE GLANDS

Accepted as the Industry standard while also conforming to AS1939–1990 (IEC 529–1989), **CARROLL** Nylon “BULLET” glands have been tested and certified to IP68. Our “BULLET” design speeds installation and reduces inventory through extended cable diameter range and eliminating the need to disassemble before installation.

CODE	PART NO.	THREAD	CABLE RANGE	PACK QTY
PE	CG12	M12	3–6.5mm	50
	CG16	M16	5–10mm	50
	CG20	M20	10–14mm	36
	CG25	M25	13–18mm	16
	CG32	M32	18–25mm	12
	CG40	M40	22–32mm	6
	CG50	M50	30–38mm	3
	CG63	M63	34–44mm	2
	CG63L	M63	42–50mm	2



NYLON CABLE GLAND

METAL IP68 RATED CABLE GLANDS

CARROLL nickel plated brass ‘BULLET’ cable glands are tested (and certified) to IP68, in accordance with AS1939-1990. This rigid rating is your guarantee of superior grip, strain relief, sealing and protection of your electrical installations against the ingress of dust, moisture and submersion. Our ‘BULLET’ design speeds up installation and reduces inventory through extended cable diameter range, and eliminating the need to disassemble the gland before installation.



Note: Metal glands are not supplied standard with locknuts. These are sold separately.

CODE	PART NO.	THREAD	CABLE RANGE	PACK QTY
PE	MG12	M12	3–6mm	25
	MG16	M16	5–10mm	25
	MG20	M20	8–13mm	20
	MG25	M25	11–17mm	15
	MG32	M32	15–21mm	5
	MG40	M40	19–28mm	3
	MG50	M50	26–35mm	2
	MG63	M63	32–42mm	2



METAL GLAND

METRIC LOCK NUTS FOR METAL GLANDS (SOLD SEPARATELY)

CODE	PART NO.	THREAD	PACK QTY
PE	LNM/M12	M12	25
	LNM/M16	M16	25
	LNM/M20	M20	20
	LNM/M25	M25	15
	LNM/M32	M32	5
	LNM/M40	M40	3
	LNM/M50	M50	2
	LNM/M63	M63	2



LOCKNUT
(SOLD SEPARATELY)

TAPES

PVC ELECTRICAL TAPE

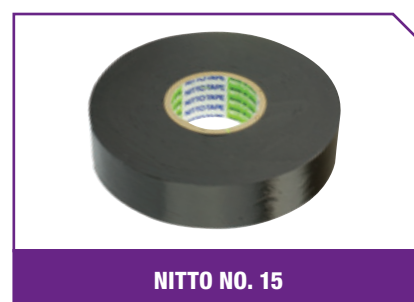
CARROLL PVC tape is designed for general electrical contracting and colour coding applications. Manufactured from 0.15 mm thick PVC, this tape also exhibits excellent adhesive and ageing properties with a high dielectric strength.

PVC electrical tape colours: Black (BK), Red (RD), Blue (BL), White (W), Green/ Yellow (GY) and Rainbow Pack (PVCTMIX).

CODE	PART NO.	ROLL LENGTH m	PACK QTY
PB	PVCTBK	20	10
	PVCTRD	20	10
	PVCTBL	20	10
	PVCTW	20	10
	PVCTGY	20	10
	PVCTMIX	20	10



PVC ELECTRICAL TAPE



NITTO NO. 15

SELF-FUSING ELECTRICAL INSULATING TAPE

No.15, self-fusing electrical insulating tape with butyl rubber backing. Designed for cable splicing and terminating, corona resistance of high voltage cables, water and corrosion protection of wires, cables and piping in marine and mining applications.

i

Note: If applied to wire or cable at a stretch of 100-150%, the tape self fuses in just 1-2 hours.

CODE	PART NO.	COLOUR	ROLL LENGTH m	PACK QTY
PB	NO.15	BLACK	10	1



GAFFA TAPE

TAPES – GAFFA, DUCT AND DOUBLE SIDED

CODE	PART NO.	TYPE	ROLL LM x WM m	COLOUR	PACK QTY
PB	GAFFAB	GAFFA	25 x 48	BLACK	1
	GAFFA	GAFFA	25 x 48	SILVER	1
	DUCT	DUCT	30 x 48	SILVER	1
	DST1	DOUBLE SIDED	10 x 18	BLACK	1



DOUBLE SIDED TAPE

CARROLL SPECIALISED CONDUIT SYSTEMS



Harnessflex combines innovative design with precision manufacturing to offer customers a broad range of cable protection products and solutions.

- Performs in a wide variety of environments from high temperature to freezing subzero conditions
- Extensive range of engineered solutions are designed to withstand the rigours of the most technically demanding applications
- Harnessflex Specialist Conduit Systems can be used to protect critical power and data cabling. ADR approved.
- Tested and approved to ANZ and International Standards
- Harnessflex hinged systems are rated at IP40.
- Harnessflex sealed systems are rated at IP66, 67, 68 (2 BAR for 30 mins) and 69k, when using Harnessflex conduit.

MARKETS AND INDUSTRIES

Harnessflex Specialist Conduit Systems can be used to protect critical power and data cabling are available throughout a wide range of markets including:

- | | |
|----------------------------|------------------|
| • Dangerous goods vehicles | • Mechanical |
| • Commercial contracting | • Security/CCTV |
| • Machinery | • Data Cabling |
| • Rail/Infrastructure | • Critical Power |
| • Marine | |

Many components are designed specifically for a market solution. These products uniquely meet an industry's needs - solving a specific application requirement, providing product innovation, saving installation and component costs, improving the quality and the integrity of the end product. Wherever you need mechanical and electrical protection for your cables you can be confident in specifying Harnessflex products.

APPROVALS

Harnessflex is tested and approved to International Standards, i.e. TUV & LCIE, for the widest variety of automotive applications including hazardous or aggressive fuel or chemical transportation environments. In Australia and New Zealand, Harnessflex is approved and meets the requirements specified in AS2809 for Dangerous Goods Vehicles, e.g. fuel tankers. It is also the system specified by the leading Australian heavy duty truck manufacturers. ADR Approved.

Copies of ADR approvals are available upon request.

www.carroll.com.au/harnessflex



HARNESSFLEX SPECIFICATIONS

Harnessflex premium nylon conduit is designed to withstand temperatures from -40°C to +120°C for long term static use and holds many features including:

- Resistance to many oils, solvents and petrochemicals
- Flexible tough construction with high impact strength and a long fatigue life
- High UV resistance, halogen free and self extinguishing
- Stocked in a wide range of sizes

When used in conjunction with the extensive range of fittings and adaptors the Harnessflex System can achieve IP66, IP67, IP68 and IP69K and offers extreme versatility for both harness manufacturing and general purpose applications.

Harnessflex
SPECIALIST CONDUIT SYSTEMS

HARNESSFLEX CHEMICAL COMPATIBILITY

CHEMICAL MINERAL	HARNESSFLEX CONDUIT	CHEMICAL/ MINERAL	HARNESSFLEX CONDUIT	CHEMICAL/ MINERAL	HARNESSFLEX CONDUIT
Astm oil no. 1	S	Astm oil no. 2	S	Astm oil no. 3	S
Acetic acid (10%)	L	Acetone	S	Aluminum chloride (10%)	L
Benzene	S	Chlorine water	U	Diesel oil	S
Ethyl alcohol	S	Ethylene glycol (antifreeze)	S	Freon 32	S
Hydrochloric acid (10%)	U	Hydrochloric acid (36%)	U	Hydrogen peroxide (35%)	L
Lactic acid (90%)	L	Lubricating oil	S	Methyl alcohol	L
Methyl ethyl ketone	S	Nitric acid (10%)	U	Nitric acid (70%)	U
Oxalic acid	L	Ozone gas	U	Paraffin oil	S
Petrol	S	Silver nitrate	S	Sodium chloride	S
Sodium hydroxide (10%)	S	Sodium hydroxide (60%)	S	Sulphuric acid (10%)	U
Sulphuric acid (70%)	U	Toluene	S	Transformer oil	S
Trichlorethylene	L	Turpentine	S	Vegetable oils (general)	S
Vinyl acetate	L	Water (sea)	S	White spirit	S
Zinc chloride	U				

Note: These results shown are based on exposure to individual chemicals at ambient temperature. All inorganic salts are saturated aqueous solutions unless otherwise stated.

Key: S = Suitable L = Limited U = Unsuitable

HARNESSFLEX PHYSICAL PROPERTIES

CHEMICAL/MINERAL	HARNESSFLEX CONDUIT	CHEMICAL/MINERAL	HARNESSFLEX CONDUIT
Specific gravity	1.14	Melting point	220°C
Max. Operating temperature static	120°C	Max. Operating temperature dynamic	100°C
Min. Operating temperature static	-40°C	Min operating temperature dynamic	-30°C
Tensile strength *	40MPa	Elongation at break *	60%
Flexural modulus *	1.0GPa	Impact strength – notched izod *	0.25KJ/m
Dielectric strength *	25MV/m	Volume resistivity *	8 log ohm cm
Halogen free	Yes		

* The results are from test pieces of sheet material, conditioned at 23°C and 50% Relative Humidity, and not from finished products.

NYLON FLEXIBLE CONDUIT

The International Protection (IP Rating) and published performance specifications of Harnessflex fittings is only guaranteed by Carroll Australasia when used in conjunction with Carroll supplied conduit.

CODE	PART NO.	NOMINAL SIZE	BORE	OD mm	PACK QTY
PD	NC08	8	6.6	10	100m
	NC10	10	8.4	11.5	100m
	NC12	12	9.9	13	100m
	NC16	16	12.7	16.1	50m
	NC20	20	16.6	21.2	50m
	NC25	25	21.3	25.6	50m
	NC28	28	22.6	28.5	50m
	NC32	32	28.8	34.5	50m
	NC40	40	35.2	42.5	25m
	NC50	50	46.5	54.5	25m



HARNESSFLEX CONDUIT

COMPLETE STRAIGHT SEALED ADAPTORS (IP 66, 67, 68, 69K)

Harnessflex straight adaptor bodies feature an anti vibration locking ring on the cap nut which ensures the fitting remains tightened during assembly and in service. An integral neoprene 'O' ring embedded in the mounting face seals the fitting against the junction box or enclosure.

CODE	PART NO.	CONDUIT SIZE	MALE THREAD	PACK QTY
PD	CAB10M16	10	16mm	5
	CAB12M16	12	16mm	5
	CAB12M20	12	20mm	5
	CAB12PG11	12	PG11	5
	CAB16M16	16	16mm	5
	CAB16M20	16	20mm	5
	CAB16PG13	16	PG13	5
	CAB20M20	20	20mm	5
	CAB20PG16	20	PG16	5
	CAB25M25	25	25mm	5
	CAB32M32	32	32mm	5
	CAB40M40	40	40mm	1
	CAB50BS20-A	50	50mm	1



STRAIGHT ADAPTOR BODIES

ATS FITTINGS – QUICK INSTALLATION, ONE PIECE, IP69K RATED

CODE	PART NO.	THREAD SIZE MM	FIT CONDUIT SIZE mm	BODY COLOUR	ELASTOMER COLOUR	PACK QTY
PD	CAB12M16ATS	16	12	BLACK	YELLOW	5
	CAB12M1690ATS	16	12	BLACK	YELLOW	5
	CAB16M16ATS	16	16	BLACK	YELLOW	5
	CAB16M1690ATS	16	16	BLACK	YELLOW	5
	CAB16M20ATS	20	16	BLACK	YELLOW	5
	CAB16M2090ATS	20	16	BLACK	YELLOW	5
	CAB20M20ATS	20	20	BLACK	YELLOW	5
	CAB20M2090ATS	20	20	BLACK	YELLOW	5
	CAB25M25ATS	25	28	BLACK	YELLOW	5
	CAB25M2590ATS	25	28	BLACK	YELLOW	5
	CAB32M32ATS	32	32	BLACK	YELLOW	5
	CAB32M3290ATS	32	32	BLACK	YELLOW	5
	CAB40M40ATS	40	40	BLACK	YELLOW	1
	CAB40M4090ATS	40	40	BLACK	YELLOW	1



ATS FITTING

The International Protection (IP Rating) and published performance specifications of Harnessflex fittings is only guaranteed by Carroll Australasia when used in conjunction with Carroll supplied conduit.

COMPLETE FLANGED 90° ADAPTOR BODIES (IP 66, 67, 68, 69K)

Used in place of an electrical connector where cables need to be passed through a bulkhead.

CODE	PART NO.	CONDUIT SIZE	PACK QTY
PD	CAB40F90	40	1



COMPLETE 90° ADAPTOR BODIES (IP 66, 67, 68, 69K)

Harnessflex 90° adaptor bodies are similar to the straight adaptors, in that they feature anti vibration locking ring on the cap nut. The seal between the adaptor body and enclosure is achieved by the neoprene sealing face washer supplied in the kit.

CODE	PART NO.	CONDUIT SIZE	MALE THREAD	PACK QTY
PD	CAB10M1690	10	16mm	5
	CAB12M1690	12	16mm	5
	CAB16M1690	16	16mm	5
	CAB16M2090	16	20mm	5
	CAB20M2090	20	20mm	5
	CAB25M2590	25	25mm	5
	CAB32M3290	32	32mm	5
	CAB40M4090	40	40mm	1



COMPLETE "T" PIECES (IP 66, 67, 68, 69K)

Harnessflex "T" pieces save time and space in the construction of wiring looms. Also featuring the unique anti vibration rings, the "T" pieces make branches from main harnesses simple and also in many instances can replace expensive junction boxes. Through the use of the simple reducing kits, any outlet can be reduced down to any smaller conduit size. The inspection hatch can be removed in order to ease routing cables through the "T" piece but this must be refitted after assembly to maintain the IP67 rating.

CODE	PART NO.	CONDUIT SIZE	PACK QTY
PD	CTP10	10 x 3	1
	CTP12	12 x 3	1
	CTP16	16 x 3	1
	CTPB20	20 x 3	1
	CTPB28	25 x 3	1
	CTPB32	32 x 3	1



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REDUCING KITS (IP 66, 67, 68, 69K)

Special cap nut and sealing bush kit, designed to reduce outlets from “T” pieces, manifolds and connectors.

CODE	PART NO.	FROM CONDUIT	TO CONDUIT	PACK QTY
PD	RK12-08	12	8	5
	RK16-08	16	8	5
	RK16-12	16	12	5
	RK20-08	20	8	5
	RK20-12	20	12	5
	RK20-16	20	16	5
	RK28-12	25	12	5
	RK28-16	25	16	5
	RK28-20	25	20	5
	RK32-20	32	20	5
	RK32-28	32	28	5

**‘T’ PIECE CONNECTOR****“T” PIECE CONNECTOR (IP 66, 67, 68, 69K)**

CODE	PART NO.	JOINS T PIECES	PACK QTY
PD	TPC12	CTP10 & CTP12	5
	TPC16	CTP16	5
	TPC20	CTPB20	5
	TPC28	CTPB28	5

**COMPLETE ‘X’ PIECE****COMPLETE “X” PIECE (IP 66, 67, 68, 69K)**

The Harnessflex “X” Piece exhibits all the sealing and anti-vibration features of the T Piece, and accepts the reducing kits allowing utilisation of 20, 16, 12 and 8mm conduit sizes from any of the 4 outlets. A perfect, space saving, economical replacement for junction boxes.

CODE	PART NO.	CONDUIT SIZE	PACK QTY
PD	CXP20	20 x 4	1

COMPLETE MANIFOLD (IP 66, 67, 68, 69K)

Similar to a “T” piece. This product can be used where two outlets are required close together from a main conduit run. Used principally on vehicle chassis harnesses where connections are required to gearbox, differentials and air drier switches etc.

CODE	PART NO.	CONDUIT SIZE	PACK QTY
PF	CMF25X12	2 x 12, 2 x 25	1

**MANIFOLD**

The International Protection (IP Rating) and published performance specifications of Harnessflex fittings is only guaranteed by Carroll Australasia when used in conjunction with Carroll supplied conduit.

“Y” PIECE HINGED FITTINGS (IP40)

“Y” pieces provide branch outlets along a conduit run. Standard applications include insertion in vehicle engine or chassis harness where complete sealing is not required. Splash proof to IP40. Sizes are available for use with conduit diameters from 8mm up to 25mm. The “Y” piece is supplied as one part and hinged along its length. They are simply applied as the final assembly item by locating onto the conduit corrugations and snapped together. The fitting offers no restriction of the conduit bore.

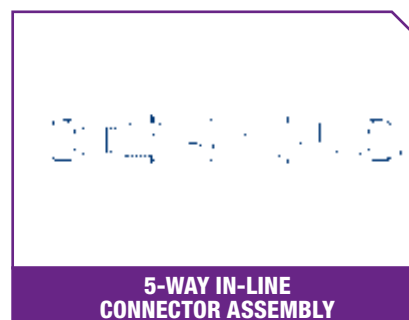
CODE	PART NO.	CONDUIT OUTLETS	PACK QTY
PD	YPS080808	08-08-08	10
	YPS120808	12-08-08	10
	YPS121212	12-12-12	10
	YPS161208	16-12-08	10
	YPS161212	16-12-12	10
	YPS161608	16-16-08	10
	YPS161612	16-12-12	10
	YPS201208	20-12-08	10
	YPS201212	20-12-12	10
	YPS201612	20-16-12	10
	YPS201616	20-16-16	10
	YPS202008	20-20-08	10
	YPS202012	20-20-12	10
	YPS202016	20-20-16	10
	YPS252016	25-20-16	10
	YPS252512	25-25-12	10
	YPS252516	25-25-16	10
	YPS252520	25-25-20	10
	YPS252525	25-25-20	10



HINGED “Y” PIECE



8-WAY BAYONET CONNECTOR

5-WAY IN-LINE
CONNECTOR ASSEMBLY

COMPLETE MULTI PIN BULKHEAD CONNECTOR - BAYONET

CODE	PART NO.	NO. OF CIRCUITS	NO. OF LARGE PINS	NO. OF SMALL PINS	PACK QTY
PF	CMPJB081	8	0	8	1
	CMPJB082	8	1	7	1

COMPLETE MULTI PIN IN-LINE AND BULKHEAD CONNECTORS

The five circuit connector is suitable for in-line applications only. The 16, 21 and 37 circuit connectors can be utilised for both in-line and bulkhead mount applications.

CODE	PART NO.	NO. OF CIRCUITS	NO. OF LARGE PINS	NO. OF SMALL PINS	PACK QTY
PF	CILCMF05	5	-	5	1
	CMPMF16	16	4	12	1
	CMPMF21	21	7	14	1
	CMPMF37	37	-	37	1



16, 21 & 37 WAY CONNECTORS

COMPLETE SOLENOID/SWITCH CONNECTORS

To provide a straight or 90° electrical connection between conduit and solenoid or switch connector with either M24 or M27 thread connection.

CODE	PART NO.	TYPE	SUIT CONDUIT	NO. OF PINS	PACK QTY
PF	CSCM24902	90 DEG	12	2	5
	CSCM272	STRAIGHT	8	2	5
	CSCM27902	90 DEG	12	2	5

*Includes solenoid-switch connector/connector housing/socket terminals/sealing ring and cap nut.

*Connectors with NC12 outlets as standard can be reduced to NC08 with reducing kit.



SOLENOID SWITCH CONNECTORS

The International Protection (IP Rating) and published performance specifications of Harnessflex fittings is only guaranteed by Carroll Australasia when used in conjunction with Carroll supplied conduit.

END CAPS AND END SLEEVES

Where conduit is not terminated with an adaptor or fitting, end caps are used to seal the end of a conduit run when using up to five separate wires. Suitable for NC10 and NC12 conduit, the end caps are supplied with either a 3 or 5 cable outlets, which are simply slit open when required. End sleeves are used to seal the end of the conduit when either single or multiple wires are used, with the addition of two nylon cable ties.

CODE	PART NO.	TYPE	SUIT CONDUIT	PACK QTY
PD	EK03-10	END CAP	10 & 12	10
	EK05-10	END CAP	12	10
	ESN12-10	END SLEEVE	12	10
	ESN16-10	END SLEEVE	16	10
	ESN20-10	END SLEEVE	20	10
	ESN25-10	END SLEEVE	25	10
	ESN32-10	END SLEEVE	32	10

NEW

CONDUIT CLIP – HINGED

CARROLL's new hinged conduit mounting clip is designed to save time and improve Harnessflex conduit serviceability. The low profile design is space saving and results in a more aesthetically pleasing finish.

PART NO.	CONDUIT SIZE		DIMENSIONS mm				FIXING HOLE	A/F COUNTER SIZE	PACK QTY
	NC	NW	A	B	C	D			
HCB08/HX	8	7.5	23	23	13	12	4	8	10
HCB12/HX	12	10	23	23	13	12	4	8	10
HCB16/HX	16	13	27	27	15	14	5	9	10
HCB20/HX	20	17	34	35	20	18	6	10	10
HCB28/HX	28	23	44	44	23	21	6	10	10
HCB32/HX	32	29	53	52	27	23	6	10	10
HCB40/HX	40	36	65	63	32	27	6	10	5
HCB50/HX	50	48	81	77	39	32	6	10	5

CONDUIT P CLIP

A one screw fixing P shaped clip for secure conduit mounting. Available in either heavy duty Nylon 6/6 or steel with PVC insert (steel/stainless steel PVC in the Bundling section of the catalogue).

CODE	PART NO.	SUIT CONDUIT	PACK QTY
PD	RP12	10	10
	RP13	12	10
	RP16	16	10
	RP22	20	10
	RP25	25	10



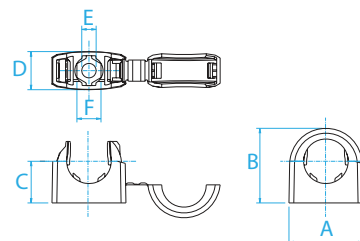
END CAPS



END SLEEVES



HARNESSFLEX CONDUIT CLIP



CONDUIT CLIP – HINGED



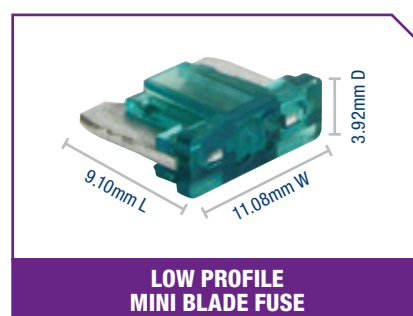
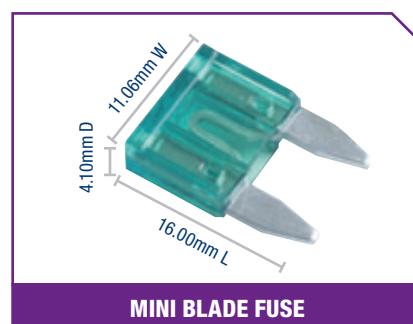
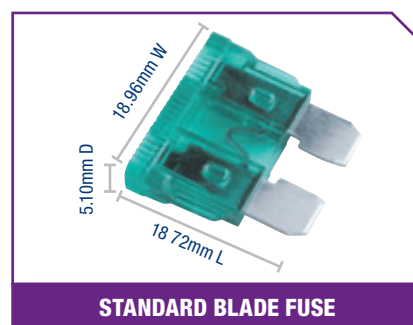
CONDUIT P CLIP

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FUSES AND FUSE HOLDERS

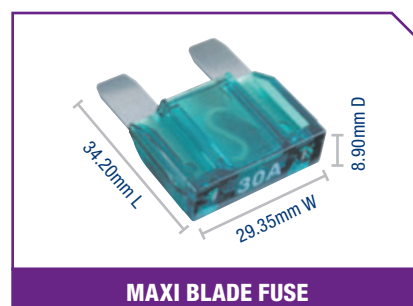
WEDGE OR BLADE FUSES – STANDARD, MINI, LOW PROFILE MINI AND MAXI

CODE	PART NO.	TYPE	COLOUR	AMP RATING	PACK QTY
PD	AF3	STANDARD	VIOLET	3	50
	AF5	STANDARD	TAN	5	50
	AF7.5	STANDARD	BROWN	7.5	50
	AF10	STANDARD	RED	10	50
	AF15	STANDARD	BLUE	15	50
	AF20	STANDARD	YELLOW	20	50
	AF25	STANDARD	CLEAR	25	50
	AF30	STANDARD	GREEN	30	50
	MAF3	MINI	VIOLET	3	50
	MAF5	MINI	TAN	5	50
	MAF7.5	MINI	BROWN	7.5	50
	MAF10	MINI	RED	10	50
	MAF15	MINI	BLUE	15	50
	MAF20	MINI	YELLOW	20	50
	MAF25	MINI	CLEAR	25	50
	MAF30	MINI	GREEN	30	50
	QLMAF5	LOW PROFILE MINI	TAN	5	50
	QLMAF7.5	LOW PROFILE MINI	BROWN	7.5	50
	QLMAF10	LOW PROFILE MINI	RED	10	50
	QLMAF15	LOW PROFILE MINI	BLUE	15	50
	QLMAF20	LOW PROFILE MINI	YELLOW	20	50
	QLMAF25	LOW PROFILE MINI	CLEAR	25	50
	QLMAF30	LOW PROFILE MINI	GREEN	30	50
	BFX20	MAXI	YELLOW	20	5
	BFX30	MAXI	LIGHT GREEN	30	5
	BFX40	MAXI	ORANGE	40	5
	BFX50	MAXI	RED	50	5
	BFX60	MAXI	LIGHT BLUE	60	5
	BFX80	MAXI	CLEAR	80	5
	BFX100	MAXI	VIOLET	100	5



EXTERNALLY SOLDERED FUSES – GLASS/CERAMIC

CODE	PART NO.	TYPE	COLOUR	AMP RATING	DIMENSIONS mm	PACK QTY
PC	2AG5	GLASS	-	5	20 x 5	50
	2AG10	GLASS	-	10	-	50
	2AG15	GLASS	-	15	-	50
	3AG1	GLASS	-	1	32 x 6.3	50
	3AG2	GLASS	-	2	-	50
	3AG3	GLASS	-	3	-	50
	3AG5	GLASS	-	5	-	50
	3AG7.5	GLASS	-	7.5	-	50
	3AG10	GLASS	-	10	32 x 6.3	50
	3AG15	GLASS	-	15	-	50
	3AG20	GLASS	-	20	-	50
	3AG25	GLASS	-	25	-	50
	3AG30	GLASS	-	30	-	50
	3AG35	GLASS	-	35	-	50
	6AC5	CERAMIC	YELLOW	5	25 x 6	50
	6AC8	CERAMIC	WHITE	8	-	50
	6AC16	CERAMIC	RED	16	-	50
	6AC25	CERAMIC	BLACK	25	-	50
	SFE14	GLASS	-	14	27 x 6.2	50



FUSELINKS

CODE	PART NO.	TYPE	COLOUR	AMP RATING	PACK QTY
PC	FLF20	FEMALE	WHITE	20	10
	FLF30	FEMALE	PINK	30	10
	FLF40	FEMALE	GREEN	40	10
	FLF50	FEMALE	RED	50	10
	FLF60	FEMALE	YELLOW	60	10
	FLF80	FEMALE	BLACK	80	10
	FLF100	FEMALE	BLUE	100	10
	FLM20	MALE	WHITE	20	10
	FLM30	MALE	PINK	30	10
	FLM40	MALE	GREEN	40	10
	FLM50	MALE	RED	50	10
	FLM60	MALE	YELLOW	60	10
	FLM80	MALE	BLACK	80	10
	FLM100	MALE	BLUE	100	10



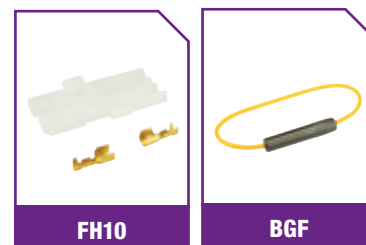
FUSELINK FEMALE



FUSELINK MALE

FUSE HOLDERS – GLASS

CODE	PART NO.	NO. OF CIRCUITS	FUSE TYPE	NOTES	PACK QTY
PC	FH10	1	3AG	IN LINE, WITH CRIMP CONTACTS	10
	BGF	1	3AG	IN LINE, BAKELITE WITH WIRE	10
	GFHLD	1	3AG	IN LINE, WITH WIRE	10
	WGFH	1	3AG	IN LINE, WATERPROOF	10
	PFH3AG	1	3AG	PANEL MOUNT, SOLDER TAGS	5



FH10

BGF

FUSE HOLDERS – CERAMIC

CODE	PART NO.	NO. OF CIRCUITS	FUSE TYPE	NOTES	PACK QTY
PC	CFH	1	6AC	IN LINE, CLIP LOCK	10

FUSE HOLDERS - BLADE OR WEDGE

CODE	PART NO.	NO. OF CIRCUITS	FUSE TYPE	SIZE	NOTES	PACK QTY
PC	BFMH	1	BLADE	MINI	IN LINE, WITH CAP & WIRE	10
	SBFH	1	BLADE	STANDARD	IN LINE APPLICATION	5
	QTBFH	1	BLADE	STANDARD	QUIKTAP IN LINE	25
	BFH	1	BLADE	STANDARD	IN LINE, WITH CAP & WIRE	10
	BFHW	1	BLADE	STANDARD	IN LINE, WATERPROOF WITH WIRE	10
	WSBFH	1	BLADE	STANDARD	WATERPROOF, WITH MOUNTING CAP	5
	BFK	4	BLADE	STANDARD	STACKABLE WITH MOUNTING HOLES	1
	BFHX812	1	BLADE	MAXI	IN LINE 60AMP, WITH WIRE	1
	BFHX412	1	BLADE	MAXI	IN LINE 100AMP, WITH WIRE	1



GFHLD

WGFH

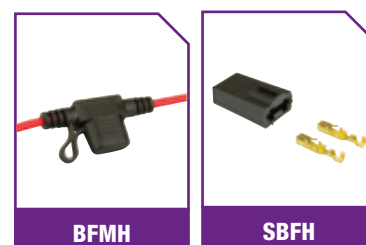


PFH3AG

CFH



Note: Components also sold separately for BFK, SBFH and WSBFH. Refer to next page.



BFMH

SBFH



QTBFH

BFH

BFHW

WSBFH

BFK

BFHX412

BFHX812

BFK COMPONENTS

CODE	PART NO.	DESCRIPTION	PACK QTY
C	12004943	HOUSING	50
	12020321L	TERMINAL	100
	12004568L	4 GANG TERMINAL	10

SBFH COMPONENTS

CODE	PART NO.	DESCRIPTION	PACK QTY
C	12010105	HOUSING	50
	12020321L	TERMINAL	100

WSBFH COMPONENTS

CODE	PART NO.	DESCRIPTION	PACK QTY
C	12033769	HOUSING	50
	12033731	COVER	50
	12033997L	TERMINAL	100

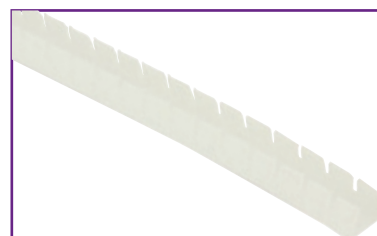
BLADE FUSE POWER TAKE OFF

CODE	PART NO.	FUSE TYPE	SIZE	NOTES	PACK QTY
T	ACTILR	BLADE	STANDARD	FIT TO FUSE INSERT FUSE IN FUSEHOLDER	100

**BLADE FUSE POWER TAKEOFF****MOVEABLE BUSHING**

Moveable bushing is manufactured from natural opaque polyethylene and is designed to bush or edge metal panels to provide protection to cables, hoses, rope etc, against sharp edges.

CODE	PART NO.	COLOUR	CHASSIS RANGE	LENGTH
BA	MB016	OPAQUE	1.0-1.6	10m
	MB024	OPAQUE	1.6-2.4	10m
	MB032	OPAQUE	2.4-3.2	10m

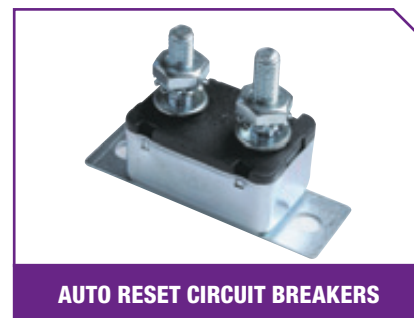
**MOVEABLE BUSHING**

AUTO AND MANUAL RESET CIRCUIT BREAKERS

AUTO RESET CIRCUIT BREAKERS

Heavy duty, universal, cycles or continuously resets until the overload situation is corrected. Metal housing supplied with integral metal mounting bracket. Designed for 6-24 volt DC.

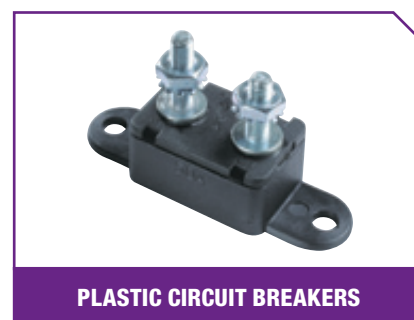
CODE	PART NO.	AMPERES	PACK QTY
PC	CB10A	10	10
	CB15A	15	10
	CB20A	20	10
	CB25A	25	10
	CB30A	30	10
	CB40A	40	10
	CB50A	50	10



AUTO RESET CIRCUIT BREAKERS

PLASTIC CIRCUIT BREAKERS

CODE	PART NO.	AMPERES	PACK QTY
PC	CBP20A	20	10
	CBP30A	30	10
	CBP40A	40	10
	CBP50A	50	10

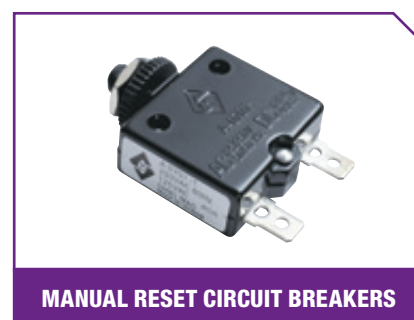


PLASTIC CIRCUIT BREAKERS

MANUAL RESET CIRCUIT BREAKERS

Thermal Type Circuit Breaker. Dash or panel mount, supplied complete with metal, knurled top locking nut and hex back nut, black nameplate with 'Press to Reset' instructions. Mounting hole 10mm. Standard 6.3mm (1/4") quick connect tab terminals. Input power 50 volts DC/125 volts AC/250 volts AC.

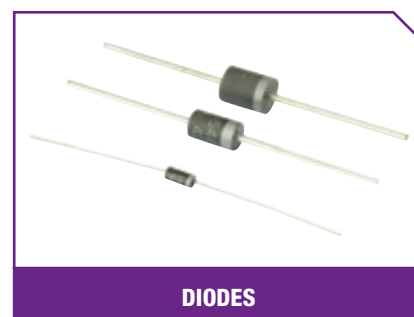
CODE	PART NO.	AMPERES	PACK QTY
PC	MRCB10A	10	10
	MRCB15A	15	10
	MRCB20A	20	10
	MRCB25A	25	10
	MRCB30A	30	10
	MRCB40A	40	10



MANUAL RESET CIRCUIT BREAKERS

DIODES

CODE	PART NO.	PRODUCT	DESCRIPTION	PACK QTY
PC	1ADIODE	DIODE	1 AMP	100
	3ADIODE	DIODE	3 AMP	10
	6ADIODE	DIODE	6 AMP	10



DIODES

BUNDLING

Cable Ties and Accessories	70–74
Hook and Loop Strapping	74
Stainless Steel Cable Ties	74
Adhesive Ribbon Cable Clip	75
Christmas Tree Plug	75
Coloured Cable Ties	75
Nylon Cable Tie Mounts and Accessories	75
Clamps and Saddles	75–77
Quikflex	78
Spiroll Cable Wrapping	78
Loom Tube	79
PVC Tubing	79
Din Rail Channel	80
Slotted Wiring Duct	80



CARROLL CABLE TIES AND ACCESSORIES

CARROLL cable ties and accessories are manufactured with high quality, high-tech and computer-controlled injection and extrusion machines available today.

CARROLL currently offer hundreds of cable ties and accessories whose quality has been approved by UL, CSA, VDE, DNV, GL, LLOYD, CE, ABS, IP68 etc.

For long life and dependable service, there are many factors to consider when selecting the appropriate cable tie for the application. There are also various environmental conditions (such as weathering, flammability, chemical, radiation, moisture and temperature extremes), that will have detrimental effects on specific cable tie materials. **CARROLL** offers a wide selection of cable tie designs, styles and materials. With cable ties available in lengths from 100mm to 1168mm, tensile strengths exceeding 110 kilos, identification marker ties, screw and push mount ties, we have a design and style to meet your specific application needs. Precision manufactured from UL approved nylon 6/6 with a flammability rating of UL94V-2, the nylon cable ties are tested under NATA Laboratory No. 987 & 1748 to meet or exceed the tensile strength requirements of MIL-S-23190D. For every cable tie, there is a Quikcrimper installation tool available to provide a fast, dependable method of application.

MATERIALS

1. NATURAL NYLON 6/6

Primarily used for indoor applications. Life expectancy in ultraviolet light, (sunlight), is one to two years*. The normal operating temperature range of nylon 6/6 is -10°C to 85°C.

2. BLACK WEATHER RESISTANT NYLON 6/6

Primarily used in outdoor applications. Over a period of time, ultraviolet light attacks most plastic materials and reduces their properties by breaking down the molecular chain. A uniform dispersion of 2% carbon black provides UV resistance and increases the cable tie life expectancy to 7–9 years*.

3. STAINLESS STEEL

Primarily used in petro-chemical, marine, severe hostile environments, flame-proof installations and applications of long term external exposure or weathering where a life expectancy of >20 years can be expected. Uncoated operating temperature is -45°C to 500°C.

* This is based on the assumption of minimum loading, no chemical attack and impact free conditions.

LIGHT DUTY NYLON TIES

CODE	PART NO.	COLOUR	LENGTH x WIDTH	BUNDLE Ø mm	TENSILE STRENGTH (KG)	PACK QTY
B	CT102	NATURAL	100 x 2.5	25	8	100
	CT102/1000	NATURAL	100 x 2.5	25	8	1000
	CT102B	UV BLACK	100 x 2.5	25	8	100
	CT102B/1000	UV BLACK	100 x 2.5	25	8	1000
	CT165	NATURAL	165 x 2.5	44	8	100
	CT165B	UV BLACK	165 x 2.5	44	8	100
	CT200L	NATURAL	200 x 2.5	55	8	100
	CT200LB	UV BLACK	200 x 2.5	55	8	100



INTERMEDIATE DUTY NYLON TIES

CODE	PART NO.	COLOUR	LENGTH x WIDTH	BUNDLE Ø mm	TENSILE STRENGTH (KG)	PACK QTY
B	CT143	NATURAL	150 x 3.6	39	18	100
	CT143B	UV BLACK	150 x 3.6	39	18	100
	CT200M	NATURAL	200 x 3.2	55	18	100
	CT200MB	UV BLACK	200 x 3.2	55	18	100
	CT292	NATURAL	300 x 3.6	85	18	100
	CT292B	UV BLACK	292 x 3.6	85	18	100
	CT370MB	NATURAL	370 x 3.6	102	18	100



STANDARD DUTY NYLON TIES

CODE	PART NO.	COLOUR	LENGTH x WIDTH	BUNDLE Ø mm	TENSILE STRENGTH (KG)	PACK QTY
B	CT160S	NATURAL	160 x 4.8	42	22	100
	CT160SB	UV BLACK	160 x 4.8	42	22	100
	CT194	NATURAL	203 x 4.6	55	22	100
	CT194B	UV BLACK	203 x 4.6	55	22	100
	CT280	NATURAL	300 x 4.8	85	22	100
	CT280B	UV BLACK	300 x 4.8	85	22	100
	CT370	NATURAL	385 x 4.8	116	22	100
	CT370B	UV BLACK	385 x 4.8	116	22	100
	CT432	NATURAL	432 x 4.8	125	22	100
	CT432B	UV BLACK	432 x 4.8	125	22	100

HEAVY DUTY NYLON TIES

CODE	PART NO.	COLOUR	LENGTH x WIDTH	BUNDLE Ø mm	TENSILE STRENGTH (KG)	PACK QTY
B	CT200	NATURAL	203 x 7.6	55	55	100
	CT200B	UV BLACK	203 x 7.6	55	55	100
	CT300	NATURAL	300 x 7.6	88	55	100
	CT300B	UV BLACK	300 x 7.6	88	55	100
	CT373	NATURAL	380 x 7.6	110	55	100
	CT373B	UV BLACK	380 x 7.6	110	55	100
	CT550	NATURAL	550 x 7.6	166	55	100
	CT550B	UV BLACK	550 x 7.6	166	55	100
	CT762B	UV BLACK	762 x 9.0	236	80	100
	CT838	NATURAL	812 x 9.0	246	80	100
	CT838B	UV BLACK	812 x 9.0	246	80	100



ULTRA HEAVY DUTY NYLON TIES

CODE	PART NO.	COLOUR	LENGTH x WIDTH	BUNDLE Ø mm	TENSILE STRENGTH (KG)	PACK QTY
B	CT550HB	UV BLACK	550 x 13.0	166	114	100

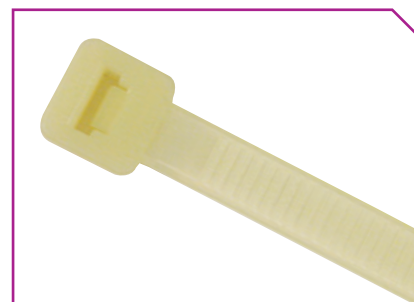
ULTRA LONG HEAVY DUTY NYLON TIES

CODE	PART NO.	COLOUR	LENGTH x WIDTH	BUNDLE Ø mm	TENSILE STRENGTH (KG)	PACK QTY
B	CT1168	NATURAL	1168 x 9.0	360	80	100
	CT1168B	UV BLACK	1168 x 9.0	360	80	100

HEAT STABILISED CABLE TIES

Heat stabilised Nylon 6/6, primarily used in indoor applications.
Normal operating temperature -40°C to +105°C

CODE	PART NO.	COLOUR	LENGTH x WIDTH	BUNDLE Ø mm	TENSILE STRENGTH (KG)	PACK QTY
B	CT373GHS	LIGHT GREEN	380 x 7.6	110	55	100



HEAT STABILISED CABLE TIES

SCREW MOUNT NYLON TIES

CODE	PART NO.	COLOUR	LENGTH x WIDTH	BUNDLE Ø mm	TENSILE STRENGTH (KG)	PACK QTY
B	SM143	NATURAL	155 x 3.7	40	18	100
	SM143B	UV BLACK	155 x 3.7	40	18	100
	SM194	NATURAL	204 x 4.2	60	22	100
	SM194B	UV BLACK	204 x 4.2	60	22	100



SCREW MOUNT NYLON TIES

PUSH MOUNT NYLON TIES

CODE	PART NO.	COLOUR	LENGTH x WIDTH	BUNDLE Ø mm	PACK QTY
B	PM143	NATURAL	155 x 3.6	40	100
	PM143B	UV BLACK	155 x 3.6	40	100
	PM150B	UV BLACK	150 x 8.0	40	100



PUSH MOUNT NYLON TIES

HOSE CLAMP CABLE TIES

Designed to provide complete 360 circumferential compression. Applications include fuel lines, irrigation and plumbing flexible hoses and pipes, air lines etc. (Can replace OE No. 54-816311T) Recommended for use with Hypalon®* and other soft surface fuel hosing.

CODE	PART NO.	COLOUR	LENGTH x WIDTH	BUNDLE Ø mm	PACK QTY
B	QHT194B	UV BLACK	200 x 4.8	55	100

*Registered trademark DuPont

STANDARD DUTY RELEASABLE NYLON TIES

CODE	PART NO.	COLOUR	LENGTH x WIDTH	BUNDLE Ø mm	PACK QTY
B	RT194	NATURAL	200 x 4.7	55	100
	RT194B	UV BLACK	200 x 4.7	55	100

HEAVY DUTY RELEASABLE NYLON TIES

CODE	PART NO.	COLOUR	LENGTH x WIDTH	BUNDLE Ø mm	PACK QTY
WB	RT130B	UV BLACK	125 x 7.6	30	100
	RT200B	UV BLACK	200 x 8.0	50	100
	RT300B	UV BLACK	300 x 8.0	80	100

IDENTIFICATION NYLON TIES

CODE	PART NO.	TYPE	LENGTH x WIDTH	BUNDLE Ø mm	PACK QTY
B	IT102	FIG 1.	100 x 2.5	25	100
	IT110	FIG 2.	110 x 2.5	25	100
	IT194	FIG 3.	200 x 4.6	50	100

IDENTIFICATION MARKER PLATES

CODE	PART NO.	LENGTH x WIDTH	PACK QTY
B	IP38*19	38 x 19	100

CABLE TIE REFILL PACKS TO SUIT MERCHANTISER

CODE	PART NO.	COLOUR	LENGTH x WIDTH	PACK QTY
B	CV094W25	UV BLACK	100 x 2.5	25
	CV150W25	UV BLACK	142 x 3.2	25
	CV200W25	UV BLACK	190 x 4.8	25
	CV280W25	UV BLACK	280 x 4.8	25
	CV368W25	UV BLACK	368 x 4.8	25



HOSE CLAMP NYLON TIES



RELEASABLE NYLON TIES



IDENTIFICATION NYLON TIES



IDENTIFICATION MARKER PLATES

SCREW AND PUSH MOUNT TIE BASES

CODE	PART NO.	TYPE	LENGTH	MAX TIE WIDTH mm	PACK QTY
B	CTA4	1	19	4	100
	CTS	2	15	5	100
	CTS/B	2	15	5	100
	CTHD	2	23	9	100
	CTHD/B	2	23	9	100



SCREW AND PUSH MOUNT TIE BASES

ADHESIVE MOUNTING BASES

CODE	PART NO.	COLOUR	LENGTH x WIDTH	MAX TIE WIDTH mm	PACK QTY
B	AMB19	NATURAL	19 x 19	4.7	100
	AMB19B	BLACK	19 x 19	4.7	100
	AMB25	NATURAL	28 x 28	5.0	100
	AMB25B	BLACK	28 x 28	5.0	100



ADHESIVE MOUNTING BASES

STAINLESS STEEL CABLE TIES – STANDARD DUTY

CODE	PART NO.	STEEL GRADE	LENGTH x WIDTH	BUNDLE Ø mm	TENSILE STRENGTH (KG)	PACK QTY
BB	SSCT200/316	316	201 x 4.6	50	44.5	100
	SSCT360/316	316	360 x 4.6	100	44.5	100
	SSCT520/316	316	520 x 4.6	150	44.5	100



STAINLESS STEEL CABLE TIES

COATED STAINLESS STEEL CABLE TIES – STANDARD DUTY

CODE	PART NO.	STEEL GRADE	LENGTH x WIDTH	BUNDLE Ø mm	TENSILE STRENGTH (KG)	PACK QTY
BB	SSCT200/316P	316	201 x 4.6	50	44.5	100
	SSCT360/316P	316	360 x 4.6	100	44.5	100



COATED STAINLESS STEEL CABLE TIES

STAINLESS STEEL CABLE TIES – HEAVY DUTY

CODE	PART NO.	STANDARD GRADE	LENGTH x WIDTH	BUNDLE Ø mm	TENSILE STRENGTH (KG)	PACK QTY
B	SSCT200HD/316	316	201 x 7.9	50	111.2	50
	SSCT360HD/316	316	360 x 7.9	100	111.2	50
	SSCT520HD/316	316	520 x 7.9	150	111.2	50
	SSCT680HD/304	304	680 x 7.9	203	111.2	50
	SSCT840HD/304	304	840 x 7.9	250	111.2	50
	SSCT1200HD/304	304	1200 x 7.9	289	111.2	50

HOOK AND LOOP STRAPPING

Back to back hook and loop velcro strap. Infinitely adjustable to any size, the user simply wraps the strapping around the objects to be held and cuts to length. Eliminates the potential for damage to fibre optics or cables caused by possible over-cinching or accidental cutting.

CODE	PART NO.	COLOUR	LENGTH x WIDTH	BUNDLE Ø mm	ROLL LENGTH
B	V12-2280	BLACK	22.8 x 12	VARIABLE	22.8m
	V25-2280	BLACK	22.8 x 25	VARIABLE	22.8m



HOOK AND LOOP STRAPPING

CANISTER PACKS (COLOURED)

CODE	PART NO.	COLOUR	SIZE	PACK QTY
B	CP300	MIXED	300 x 102mm & 200mm	300
	CP1000	MIXED	1000 x 102mm	1000

*Colours may vary to those depicted

MIXED CABLE TIE PACKS

CODE	PART NO.	COLOUR	SIZE	PACK QTY
B	CP50	BLACK, RED, BLUE & YELLOW	25 x 102mm & 200mm	50
	CT1000	BLACK	200 x 102mm, 143mm, 280mm & 400 x 194mm	1000
	CT1000HD	BLACK	200 x 280mm, 300mm, 370mm & 400 x 373mm	1000

COLOURED CABLE TIE

CODE	PART NO.	COLOUR	LENGTH x WIDTH	BUNDLE Ø mm	PACK QTY
B	CT194BL	BLUE	200 x 4.8	52	100
	CT194G	GREEN	200 x 4.8	52	100
	CT194P	PURPLE	200 x 4.8	52	100
	CT194R	RED	200 x 4.8	52	100
	CT194Y	YELLOW	200 x 4.8	52	100

ADHESIVE RIBBON CABLE CLIP

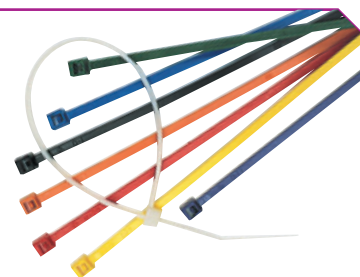
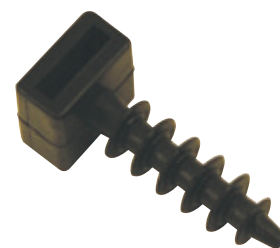
CODE	PART NO.	COLOUR	LENGTH x WIDTH	BUNDLE Ø mm	PACK QTY
B	FC25	GREY	25 x 25	25	100

CHRISTMAS TREE PLUG

CODE	PART NO.	COLOUR	MAX TIE WIDTH mm	MOUNTING HOLE (mm)	MOUNTING DEPTH (mm)	PACK QTY
B	CTP6	BLACK	9	6	24.7	100
	CTP9	BLACK	9	9	37.5	100

CABLE CLAMPS AND SADDLES**NYLON CABLE CLAMP**

CODE	PART NO.	COLOUR	BUNDLE mm	BUNDLE Ø mm	PACK QTY
BA	UC0B	BLACK	3.2	1/8	100
	UC0.5	NATURAL	4.8	3/16	100
	UC0.5B	BLACK	4.8	3/16	100
	UC1	NATURAL	6.35	1/4	100
	UC1B	BLACK	6.35	1/4	100
	UC1.5B	BLACK	7.9	5/16	100
	UC2B	BLACK	9.5	3/8	100
	UC3B	BLACK	12.7	1/2	100
	UC4B	BLACK	15.8	5/8	100
	UC5B	BLACK	19.4	3/4	100
	UC6B	BLACK	25.4	1	100
	UC7B	BLACK	31.8	11/4	100
	UC9B	BLACK	36.7	11/2	100

**CANNISTER PACKS****COLOURED CABLE TIES****ADHESIVE RIBBON CABLE CLIP****MASONRY CHRISTMAS TREE PLUG****NYLON CABLE CLAMPS**

METAL/RUBBER CABLE CLAMPS (MILD STEEL)

CODE	PART NO.	BUNDLE mm	WIDTH mm	MOUNTING HOLE mm	PACK QTY
BA	PS1	10	15	6.4	10
	PS2	13	15	6.4	10
	PS3	16	15	6.4	10
	PS4	19	15	6.4	10
	PS5	22	15	6.4	10
	PS6	27	15	6.4	10
	PS7	30	15	6.4	10
	PS8	35	15	6.4	10
	PS9	40	15	6.4	10

**METAL RUBBER CABLE CLAMPS****316 STAINLESS STEEL CABLE CLAMPS**

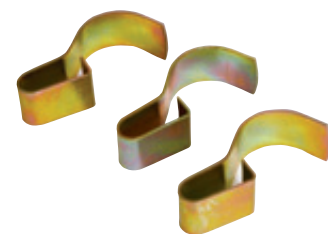
Heavy Duty clamp manufactured from 316 Grade Stainless Steel and E.P.D.M. (Ethylene Propylene Diene Monomer) rubber formulation. The combination of 316 stainless steel and E.P.D.M. rubber makes the clamps suitable for many hostile environments including outdoor and marine. Specifically designed for use in high NVH applications.

CODE	PART NO.	BUNDLE mm	WIDTH mm	MOUNTING HOLE mm	PACK QTY
BA	SSPC10	10	16	6.7	10
	SSPC10/50	10	16	6.7	50
	SSPC13	13	16	6.7	10
	SSPC13/50	13	16	6.7	50
	SSPC16	16	16	6.7	10
	SSPC16/50	16	16	6.7	50
	SSPC19	19	16	6.7	10
	SSPC19/50	19	16	6.7	50
	SSPC25	25	16	6.7	10
	SSPC25/50	25	16	6.7	50
	SSPC29	29	16	6.7	10
	SSPC29/50	29	16	6.7	50
	SSPC32	32	16	6.7	10
	SSPC32/50	32	16	6.7	50
	SSPC38	38	16	6.7	10
	SSPC38/50	38	16	6.7	50
	SSPC44	44	16	6.7	10
	SSPC44/50	44	16	6.7	50
	SSPC55	55	16	6.7	10

**STAINLESS STEEL RUBBER CABLE CLAMPS****GIRDER CLIPS****GIRDER CLIPS**

CARROLL Girder Clips are made from high quality spring steel that are treated via a zinc electroplating process.

CODE	PART NO.	FITS SIZE mm	MATERIAL THICKNESS mm	PACK QTY
BA	CGC1	8–13	0.7	100
	CGC2	16–20	0.8	100
	CGC3	25–32	1.0	100

**GIRDER CLIPS**

SINGLE AND DOUBLE SADDLES

CARROLL offers a comprehensive range of heavy duty Single and Double Sided Saddles. Saddles are made from high quality, zinc plated, cold rolled steel. Saddles feature pronounced gusseting (ridging) and pre formed fixing holes. All saddles are produced with a superior steel thickness to ensure strength and durability.

SINGLE SIDED SADDLES

CODE	PART NO.	SIZE METRIC mm	SIZE IMPERIAL mm	MATERIAL THICKNESS mm	HOLE SIZE mm	PACK QTY
BA	SSS12	12	½	1.5	6	100
	SSS19	19	¾	1.8	6	100
	SSS25	25	1	2.0	8	50
	SSS32	32	1¼	2.5	9	25
	SSS38	38	1½	2.5	9	25
	SSS50	50	2	3.0	9	20



DOUBLE SIDED SADDLES

CODE	PART NO.	SIZE METRIC mm	SIZE IMPERIAL mm	MATERIAL THICKNESS mm	HOLE SIZE mm	PACK QTY
BA	DSS12	12	½	1.2	6	100
	DSS19	19	¾	1.5	6	100
	DSS25	25	1	1.8	8	50
	DSS32	32	1¼	2.0	9	25
	DSS38	38	1½	2.0	9	25
	DSS50	50	2	2.5	9	20



SPIROLL CABLE WRAPPING

Spiroll, spiral wrapping band is designed to bind and protect hoses, wires and cables in harnesses and wiring looms. Manufactured from either natural or black polyethylene, the material exhibits excellent electrical, abrasive and binding strength. Spiroll's flexible construction enables the easy routing of wiring looms. Due to the material's durability, the product is re-useable and has almost unlimited expansion. Depending on roll size and diameter, Spiroll is either supplied in specially designed dispenser boxes or plastic bag.

CODE	PART NO.	BUNDLE RANGE mm	COLOUR	I.D. mm	LENGTH
BA	CTC3N	4–12	NATURAL	4	50m
	CTC3B	4–12	BLACK	4	50m
	CTC6N	6–50	NATURAL	6	50m
	CTC6B	6–50	BLACK	6	50m
	CTC12N	12–100	NATURAL	9	25m
	CTC12B	12–100	BLACK	9	25m
	CTC3N/10	4–12	NATURAL	4	10m
	CTC3B/10	4–12	BLACK	4	10m
	CTC6N/10	6–50	NATURAL	6	10m
	CTC6B/10	6–50	BLACK	6	10m
	CTC12N/10	12–100	NATURAL	9	10m
	CTC12B/10	12–100	BLACK	9	10m
	CTC19N/10	15–100	NATURAL	15	10m
	CTC19B/10	15–100	BLACK	15	10m
	CTC24N	20–130	NATURAL	20	10m
	CTC24B	20–130	BLACK	20	10m

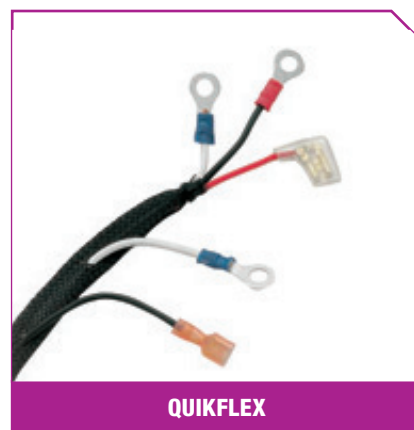


SPIROLL WRAPPING BAND

QUIKFLEX SLEEVING

Quikflex braided (or woven) sleeving from **CARROLL** is a black, flexible, expanding harness medium, made from single filament polyester. The woven construction allows Quikflex to expand in diameter considerably to firmly harness wire lengths. Wires can also be poked through the sleeving, to enable harness breakouts. (See picture)

CODE	PART NO.	DIAMETER mm	MIN.	MAX.	LENGTH
BA	QF3BK	3	1	6	100m
	QF6BK	6	3	9	100m
	QF10BK	10	7	19	100m
	QF13BK	13	8	24	100m
	QF19BK	19	14	30	100m



QUIKFLEX



QUIKFLEX

LOOM TUBE

Loom tube is a split corrugated conduit designed for quick, neat, cost effective wire harnessing or where flexible protection is required for cable connections, such as between cabinets and instruments mounted on hinged cabinet doors. The product is manufactured from black, flame retardant, polypropylene copolymer, with an operating temperature of -10 to 90 degrees celcius. RoHS Compliant.

SPLIT TUBING

CODE	PART NO.	I.D. mm	O.D. mm	COLOUR	LENGTH
BA	LT7/10M	7.0	10.4	BLACK	10m
	LT7/25M	7.0	10.4	BLACK	25m
	LT7/50M	7.0	10.4	BLACK	50m
	LT7/100M	7.0	10.4	BLACK	100m
	LT7/400M	7.0	10.4	BLACK	400m
	LT10/10M	9.7	12.8	BLACK	10m
	LT10/30M	9.7	12.8	BLACK	30m
	LT10/50M	9.7	12.8	BLACK	50m
	LT10/100M	9.7	12.8	BLACK	100m
	LT10/250M	9.7	12.8	BLACK	250m
	LT13/10M	12.6	15.7	BLACK	10m
	LT13/30M	12.6	15.7	BLACK	30m
	LT13/50M	12.6	15.7	BLACK	50m
	LT13/150M	12.6	15.7	BLACK	150m
	LT16/10M	16.3	20.9	BLACK	10m
	LT16/30M	16.3	20.9	BLACK	30m
	LT16/50M	16.3	20.9	BLACK	50m
	LT16/100M	16.3	20.9	BLACK	100m
	LT20/10M	21.1	25.2	BLACK	10m
	LT20/30M	21.1	25.2	BLACK	30m
	LT20/50M	21.1	25.2	BLACK	50m
	LT20/100M	21.1	25.2	BLACK	100m
	LT23/50M	23.0	27.0	BLACK	50m
	LT25/10M	29.0	33.0	BLACK	10m
	LT25/30M	29.0	33.0	BLACK	30m
	LT25/50M	29.0	33.0	BLACK	50m
	LT36/25M	36.0	42.0	BLACK	25m
	LT48/25M	48.0	54.0	BLACK	25m



LOOM TUBE



LOOM TUBE INSTALLATION TOOL

LOOM TUBE INSTALLATION TOOL

CODE	PART NO.	TYPE	PACK QTY
TT	LTIT	ECONOMICAL, FAST AND SIMPLE TO USE TOOL	1

PVC SPAGHETTI TUBING

PVC tubing has multiple uses including sleeving for wire harnessing and looms.

CODE	PART NO.	I.D. mm	COLOUR	LENGTH
BA	PVC4	4	BLACK	50m
	PVC5	5	BLACK	50m
	PVC6	6	BLACK	50m
	PVC7	7	BLACK	50m
	PVC8	8	BLACK	50m
	PVC10	10	BLACK	25m
	PVC12	12	BLACK	25m
	PVC16	16	BLACK	25m
	PVC19	19	BLACK	25m



PVC SPAGHETTI TUBING

SLOTTED WIRING DUCT (SINGLE SCORED)

CARROLL offer the widest range of slotted wiring duct to suit all applications. Approved to both UL and CSA standards, **CARROLL** ducting meets all customer requirements for quality, range and value for money.

CODE	PART NO.	WIDTH x HEIGHT	LENGTH m	COLOUR	PACK QTY
BC	SD2525	25 x 25	2	GREY	12
	SD2530	25 x 30	2	GREY	12
	SD2540	25 x 40	2	GREY	12
	SD2550	25 x 50	2	GREY	12
	SD2560	25 x 60	2	GREY	12
	SD2575	25 x 75	2	GREY	12
	SD4040	40 x 40	2	GREY	12
	SD4060	40 x 60	2	GREY	12
	SD4080	40 x 80	2	GREY	12
	SD5050	50 x 50	2	GREY	12
	SD5075	50 x 75	2	GREY	12
	SD6040	60 x 40	2	GREY	12
	SD6060	60 x 60	2	GREY	12
	SD6080	60 x 80	2	GREY	12
	SD70100	70 x 100	2	GREY	8
	SD7575	75 x 75	2	GREY	8
	SD8060	80 x 60	2	GREY	8
	SD8080	80 x 80	2	GREY	8
	SD100100	100 x 100	2	GREY	8
	SD10060	100 x 60	2	GREY	8



SLOTTED DUCT

SLOTTED WIRING DUCT REPLACEMENT LIDS

CODE	PART NO.	WIDTH mm	LENGTH m	COLOUR	PACK QTY
BC	SDLID25	25	2	GREY	1
	SDLID40	40	2	GREY	1
	SDLID50	50	2	GREY	1
	SDLID60	60	2	GREY	1
	SDLID70	70	2	GREY	1
	SDLID75	75	2	GREY	1
	SDLID80	80	2	GREY	1
	SDLID100	100	2	GREY	1



DIN RAIL



DIN3515S

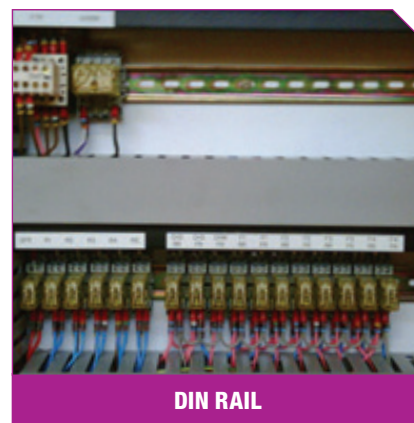
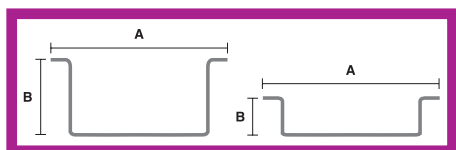


DIN3575S

DIN RAIL CHANNEL

Our selection of Din Rail Channels strengthens our offering to allow greater choice for the customer when selecting their desired cable or wire cradling method. The **CARROLL** range is manufactured from quality cold rolled steel and is finished with a zinc electro plating and a yellow passivation finish.

CODE	PART NO.	A mm	B mm	LENGTH m	STEEL THICKNESS mm	PACK QTY
BC	DIN3515S	35	15	2	1.5	10
	DIN3575S	35	7.5	2	1	10



DIN RAIL

IDENTIFICATION

CarrollPLATE™	82–83
Markfast Laser Trees and Sleeves	84
Markfast Kmark	85
Markfast Steelmark Laser Tags	86
Steelmark Manual DIY	86

markfast



CARROLLPLATE™

AN ALTERNATIVE TO TRADITIONAL ENGRAVED PLATE MARKING

CarrollPLATE™ is a proven marking system consisting of a raised, foam-backed, self-adhesive polyester label. Supplied pre-printed via a hardwearing thermal transfer printing process. (See diagram opposite page)

Why CarrollPLATE™

- Conveniently organised on rolls
- UL approved material
- Fast Despatch
- Aggressive industrial adhesive label
- Manufactured by Brady
- Logos, barcodes, wiring diagrams and much more
- Professional look; Resembles engraved plates, and has a glossy top coat
- Excellent UV weathering and chemical resistance properties

CODE	PART NO.	SIZE mm	LABEL COLOUR	TEXT COLOUR
	CP25X101BK	25 x 101	BLACK	WHITE
	CP25X101SV	25 x 101	SILVER	BLACK
	CP25X101WT	25 x 101	WHITE	BLACK
	CP25X101YL	25 x 101	YELLOW	BLACK
	CP25X101RD	25 x 101	RED	WHITE
	CP8X125BK	8 x 125	BLACK	WHITE
	CP8X125WT	8 x 125	WHITE	BLACK
	CP15X27WT	15 x 27	WHITE	BLACK
	CP15X45BK	15 x 45	BLACK	WHITE
	CP15X45SV	15 x 45	SILVER	BLACK
	CP15X45WT	15 x 45	WHITE	BLACK
	CP15X45YL	15 x 45	YELLOW	BLACK
	CP15X45RD	15 x 45	RED	WHITE
	CP30X60BK	30 x 60	BLACK	WHITE
	CP30X60SV	30 x 60	SILVER	BLACK
	CP30X60WT	30 x 60	WHITE	BLACK
	CP30X60YL	30 x 60	YELLOW	BLACK
	CP30X60RD	30 x 60	RED	WHITE
	CP50X100BK	50 x 100	BLACK	WHITE
	CP50X100SV	50 x 100	SILVER	BLACK
	CP50X100WT	50 x 100	WHITE	BLACK
	CP50X100YL	50 x 100	YELLOW	BLACK
	CP50X100RD	50 x 100	RED	WHITE
	CP69X150BK	69 x 150	BLACK	WHITE
	CP69X150SV	69 x 150	SILVER	BLACK
	CP69X150WT	69 x 150	WHITE	BLACK
	CP69X150YL	69 x 150	YELLOW	BLACK
	CP69X150RD	69 x 150	RED	WHITE

Note: Minimum quantity of 20 labels per type applies to all orders. Labels are printed in mono-colour.

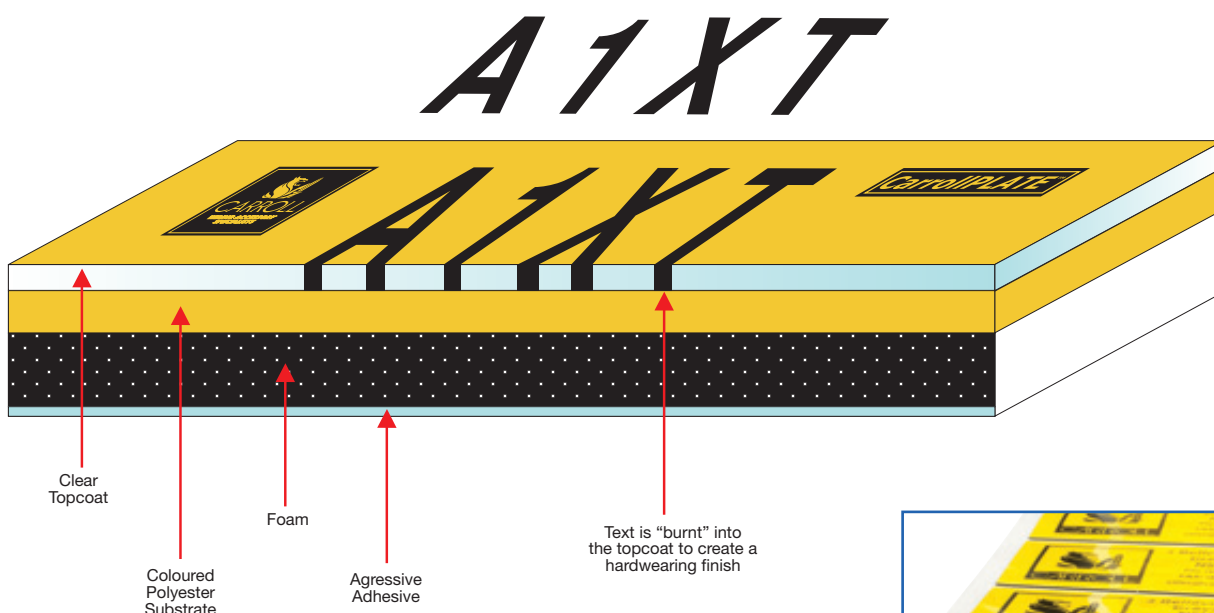


TECHNICAL PROPERTIES OVERVIEW

MATERIAL TYPE	Polyester
FINISH	Satin / Gloss
PRINT TECHNOLOGY	Thermal transfer
ADHESIVE	Acrylic Pressure Sensitive
THICKNESS	0.73mm
UV RESISTANCE	ASTM G154 1000 hrs – No Functional Defect Equivalent to approx 14 years exposure.*
WEATHERING RESISTANCE	ASTM G155 1000 hrs – No Functional Defect Equivalent to approx 3 years exposure.*
CHEMICAL RESISTANCE	No Visible effect recorded after exposure to the following chemicals: Hexane, Heptane, H2O, Diesel, 10%NaCl, 10%H2SO4, 10% NaOH, Petrol, IPA.*



CARROLLPLATE™ LABEL CROSS SECTION



CarrollPLATE™ is suitable for use in all instances where an engraved plate may have previously been used, and many other situations.

TYPICAL APPLICATIONS INCLUDE:

Name Plates, ID Plates, Electrical Panel ID, Switchboards, Instrument Controls, Wall Plate ID, Decorative Labels. Their durability, bold and raised appearance make them an excellent identification tool.

ORDERING INFORMATION:

Simply select your:

- Label Part No. from table opposite
- Font
- Quantity (Minimum of 20 per label type)
- Content (text, logo, barcode, etc)

Note: logo's must be in mono- bitmap or jpeg form.

Or design your own online at carroll.com.au/carrollplate

MARKFAST LASER TREES AND SLEEVES

Designed for all PLC, control and general marking applications for wires and cables from 0.25 to 16mm² (1.3 to 7.6mm² or 22-6AWG) and beyond, by utilising the unique cable tie applied accessory.

FEATURES:

- Fast and easy to apply
- Super clear laser engraved characters
- Broad wire range
- Guaranteed error free markers, when data received electronically
- Indelible and easy to read

TREES

CODE	PART NO.	CHARACTERS STANDARD	CHARACTERS CONDENSED	MARKER LENGTH mm	MARKERS PER TREE
I	MF10E	5	7	10	32
	MF18E	8	12	18	32
	MF23E	13	18	23	32

SLEEVES

CODE	PART NO.	WIRE RANGE mm ²	WIRE Ø RANGE mm	SLEEVE LENGTH mm	PACK QTY
IA	MFS0/10	0.25–1.5	1.3–3.5	10	1000
	MFS0/18	0.25–1.5	1.3–3.5	18	1000
	MFS0/23	0.25–1.5	1.3–3.5	23	1000
	MFS1/10	0.75–4.0	2.3–4.8	10	1000
	MFS1/18	0.75–4.0	2.3–4.8	18	1000
	MFS1/23	0.75–4.0	2.3–4.8	23	1000
	MFS2/10	4.0–16.0	4.2–7.6	10	500
	MFS2/18	4.0–16.0	4.2–7.6	18	500
	MFS2/23	4.0–16.0	4.2–7.6	23	500
	MFSC	UNLIMITED	UNLIMITED	20	100

SPECIFICATIONS

MATERIAL	Acrylic – Halogen free		
TAGS PER TREE	32		
TAG LENGTHS	10mm, 18mm & 23mm		
MAXIMUM CHARACTERS PER LABEL	Length	Standard	Condensed
	10mm	5	7
	18mm	8	12
	23mm	13	18
COLOUR	Black text on white.		

Send your data to markfast@carroll.com.au or upload via our website.
Call our Customer Service team on 1800 777 458 if you need assistance.

Markfast orders received by 12pm (Sydney time) will be despatched that day, large orders may vary.



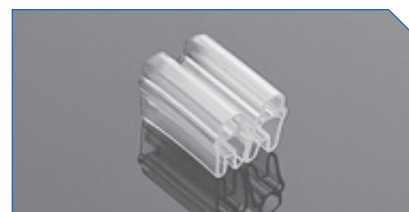
SELECT THE WIRE MARKER



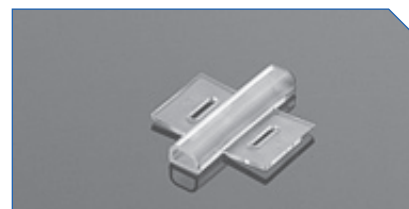
SNAP APART



FIX



DUAL SLEEVE



CABLE TIE SLEEVE

MARKFAST KMARK

Designed for general cable marking applications. Applied to the cable with nylon ties.

FEATURES:

- Fast and easy to install
- Conveniently organised on a cardboard backing
- Guaranteed error free markers, when data received electronically
- Easy to read
- Tear resistant

TREES

CODE	PART NO.	MAX. CHARACTERS	MARKER LENGTH MM	PACK QTY
I	KM35E	8	35	1
	KM70E	16	70	1
	KM105E	24	105	1

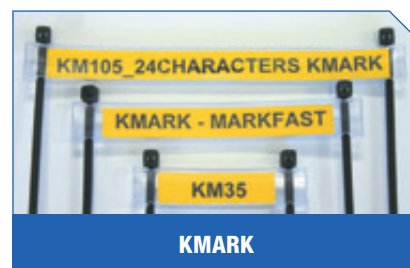
KMARK MARKERS SPECIFICATIONS

MATERIAL	Specially treated, UV resistant polypropylene
TEMPERATURE RANGE	-40°C to +120°C
DIMENSIONS	9.5mm x 35, 70 & 105mm
STANDARD CHARACTER HEIGHT	6.5mm
MAXIMUM 6MM CHARACTERS PER LABEL	35mm – 8 70mm – 16 105mm – 24
COLOUR	Bold block black print on yellow.

KMARK CARRIER SLEEVES SPECIFICATIONS

MATERIAL	Transparent, UV stabilised polyethylene
TEMPERATURE RANGE	-75°C to +80°C
DIMENSIONS	10mm x 47, 85 & 117mm
MOUNTING	Supplied with Nylon Cable Tie CT165B installed (CT200L & CT200LB & CT143B optional)
CABLE TIE BUNDLE DIAMETERS	CT165 – 44mm (1 3/4")Ø. CT200L – 55MM(2")Ø.

Send your data to markfast@carroll.com.au or upload via our website.
Call our Customer Service team on 1800 777 458 if you need assistance.



KMARK



SELECT THE WIRE MARKER



TIE



FIX

MARKFAST STEELMARK LASER

Permanent ID manufactured from quality 316 stainless steel and suited to hazardous, aggressive and fire rated environments. Applied to the cable with standard or heavy duty stainless steel cable tie (sold separately).

CODE	PART NO.	CHARACTERS STANDARD SIZE	CHARACTERS CONDENSED SIZE	CHARACTER HEIGHT mm	MARKER WIDTH mm	MARKER LENGTH mm	MARKER THICKNESS (MM)
IA	SSL70	10	12	4.0-5.0	9.5	70	0.5
	SSL90	15	19	4.0-5.0	9.5	90	0.5
	SSL110	20	25	4.0-5.0	9.5	110	0.5

SPECIFICATIONS

MATERIAL	SS316 stainless steel
TEMPERATURE RANGE	-45°C to +500°C
MARKER STRIP WIDTH	9.5mm
CHARACTER HEIGHT	4.5mm

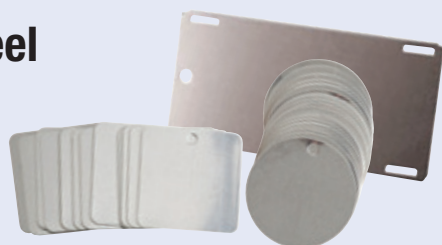
NEW



STEELMARK

Speak to Carroll about other stainless steel shapes and sizes for Laser Etching

Check out some shapes and sizes at www.carroll.com.au/Lasersteel



STEELMARK MANUAL DIY

Don't get caught out onsite! DIY Steel Tags provide peace of mind!

STEELMARK DIY STARTER KIT

CODE	PART NO.	CONTENTS CHARACTERS	CONTENTS CARRIERS	PACK QTY
IA	FLRNM	1880	125	1



DIY STARTER KIT

CHARACTERS

CODE	PART NO.	MARKINGS*	MARKERS PER STRIP	MARKER LENGTH mm	PACK QTY
IA	MR-10-20*	0-9, A-Z, SYMBOLS	20	6	10

* Advise character or symbol at time of order.



CHARACTERS

CARRIER RAILS

CODE	PART NO.	MAX. CHARACTERS	CHARACTER HEIGHT mm	MARKER WIDTH mm	PACK QTY
IA	PR10-NM4	5	46	11	10
	PR10-NM5	7	56	11	10
	PR10-NM7	11	82	11	10
	PR10-NM9	15	106	11	10
	PR10-NM24	45	286	11	10



CARRIER RAILS

Send your data to markfast@carroll.com.au or upload via our website.
Call our Customer Service team on 1800 777 458 if you need assistance.

HARDWARE & INSTALLATION

Screws	88
Drill Bits	88
Blades	88
Solder	88



INDUSTRIAL GRADE SCREWS

CARROLL offers the convenience of a range of popular Industrial Grade Screws to suit most applications.

CHIPBOARD SCREWS

CODE	PART NO.	GAUGE	LENGTH mm	PLATING FINISH	PACK QTY
H	S35	8	25	ZINCALLOY	100
	S36	8	32	ZINCALLOY	100
	S23	8	50	ZINCALLOY	100
	S25	8	57	ZINCALLOY	100
	S24	10	65	ZINCALLOY	100

SELF TAPPER PAN HEAD

CODE	PART NO.	GAUGE	LENGTH mm	PLATING FINISH	PACK QTY
H	S14	8	12	BLACK	100
	S28	8	16	BLACK	100
	S15	8	19	BLACK	100
	S16	8	25	BLACK	100
	S17	8	32	BLACK	100

TEK SCREWS

CODE	PART NO.	GAUGE	LENGTH mm	PLATING FINISH	PACK QTY
H	S37	8	20	BLACK	100
	S38	8	32	BLACK	100

SELF TAPPER WASHER FACE SCREWS

CODE	PART NO.	GAUGE	LENGTH mm	PLATING FINISH	PACK QTY
H	S27	8	12	ZINCALLOY	100
	S40	8	15	ZINCALLOY	100
	S42	8	32	BLACK	100

SELF DRILLER WASHER FACE SCREWS

CODE	PART NO.	GAUGE	LENGTH mm	PLATING FINISH	PACK QTY
H	S33	8	12	ZINCALLOY	100
	S34	8	19	ZINCALLOY	100

DRILL BITS

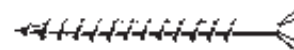
CODE	PART NO.	DESCRIPTION	SIZE	PACK QTY
H	DRILL1/8	TWIST DRILL BIT	1/8"	10
	DRILL5/32	TWIST DRILL BIT	5/32"	10

BLADES

CODE	PART NO.	DESCRIPTION	SUIT	PACK QTY
H	AIRSAW	AIRSAW BLADE 8T31335	-	10

SOLDER

CODE	PART NO.	DESCRIPTION	SIZE	PACK QTY
H	SOL4060R1.65	40/60 RESIN CORE 1.6mm	500g	1
	SOL6040R1.6	60/40 RESIN CORE 1.6mm	500g	1



CHIPBOARD SCREWS



SELF TAPPER PAN HEAD



TEK SCREWS



SELF TAPPER WASHER FACE SCREWS



SELF DRILLER WASHER FACE SCREWS



DRILL BIT



SOL6040R16

TOOLING

Hand Crimping Tools	90–91
Hydraulic Crimping Tools	91
Battery Crimping Tools	92
Cable Cutters	93
Cable Strippers	93
Wire Strippers	93
Amphenol Tools	94
Cable Tie Guns	94
Harnessflex Tools	94
Heat Guns	94
Storage Boxes	94
Weather Pack Tools	94



HAND CRIMPING TOOLS

Quikcrimper brand tooling, available exclusively from **CARROLL AUSTRALASIA**, has become the benchmark for long wearing, quality, electrical tradesman tools. We offer tools for the professional tradesman down to the budget conscious and general maintenance handyman.



On our professional quality tools, we offer a two year warranty on parts!

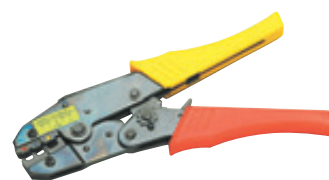
CRIMP TOOLS – PRE-INSULATED TERMINALS

In order to achieve superior electrical and mechanical connections, it is necessary to employ simple yet precise crimping methods. Quikcrimper tools are carefully constructed to ensure that each connection will be uniformly excellent. In fact, the whole science of solderless wire termination depends upon the degree of control and accuracy used to form each pressure-crimped connection. This theory should be the basis used for the selection of an appropriate quality crimp tool.

CODE	PART NO.	CLASS	TYPE	CRIMP RANGE	TOOL QTY
TT	0560 ULTRA	PROFESSIONAL	RACHET	R,B,Y	1
	0560	PROFESSIONAL	RACHET	R,B,Y	1
	0525	PROFESSIONAL	RACHET	R,B FLAG	1
	RL7700	BUDGET	RACHET	R,B,Y	1
	HT0560	PROFESSIONAL	PLIERS	R,B,Y	1
	MULTIPLIER	PROFESSIONAL	PLIERS	R,B,Y	1



0560 ULTRA



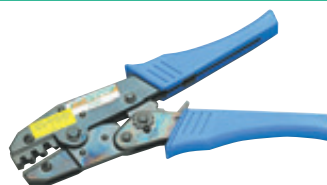
0560



MULTIPLIER

CRIMP TOOLS – UNINSULATED “F” CRIMP

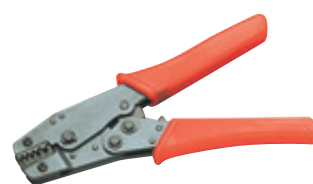
CODE	PART NO.	CLASS	TYPE	CRIMP RANGE	TOOL QTY
TT	F0560	PROFESSIONAL	RATCHET	0.5-6mm ²	1
	MULTIPLIER	PROFESSIONAL	PLIERS	1.5-6mm ²	1
	147A	BUDGET	PLIERS	FLAG, F	1



F0560

CRIMP TOOLS – FERRULES

CODE	PART NO.	CLASS	TYPE	CRIMP RANGE	TOOL QTY
TT	YAC4	PROFESSIONAL	PLIERS	0.25–2.5mm ²	1
	YAC5	PROFESSIONAL	RATCHET	0.5–6.0mm ²	1
	YAC6	PROFESSIONAL	RATCHET	6.0–16.0mm ²	1
	YAC7	PROFESSIONAL	RATCHET	16.0–35.0mm ²	1



YAC5

CRIMP TOOLS – PRE-INSULATED END SLEEVE (BOOTLACE) FERRULES

CODE	PART NO.	DESCRIPTION	TYPE	CRIMP RANGE	TOOL QTY
TT	BLFCT	PROFESSIONAL	RATCHET (FOR RED AND BLUE INSULATED TERMINALS)	0.5–6.0mm ² 20–13 AWG	1



BLFCT

CRIMP TOOLS – COAX CONNECTORS

CODE	PART NO.	DESCRIPTION	TYPE	CRIMP RANGE	TOOL QTY
TT	RG5859	PROFESSIONAL	RATCHET	RG58,59/62	1



RG5859

CRIMP TOOLS – CARROLL CRIMP GEAR OPERATED HAND CRIMP TOOL

The new Carrollcrimp gear operated, hand crimp tool is the heavy duty, economical alternative to hydraulic tools. Carrollcrimp is capable of crimping from 50mm² to 300mm² on copper cable. Comes complete with 9 sets of crimping dies and a durable canvas carry bag for protection on site and to aid mobility. Dies also available for individual purchase. (See below)

CODE	PART NO.	DESCRIPTION	TYPE	CRIMP RANGE	TOOL QTY
TT	CARROLLCRIMP	HEAVY DUTY	GEAR OPERATED	50–300mm ²	1



CARROLL CRIMP

CRIMP TOOLS – UNINSULATED COPPER LUGS

CODE	PART NO.	CLASS	TYPE	CRIMP RANGE	TOOL QTY
TT	HD0510	PROFESSIONAL	RATCHET	0.5–10mm ²	1
	HD0625	HEAVY DUTY	HEAVY DUTY	6–25mm ²	1
	HD1095	PROFESSIONAL	HEAVY DUTY	10–95mm ²	1
	HD0650	PROFESSIONAL	HEAVY DUTY	6–50mm ²	1
	HD6120	PROFESSIONAL	HEAVY DUTY	10–120mm ²	1



HD0510

CRIMP TOOLS – QUIKCRIMP BATTERY TERMINALS AND LUGS

CODE	PART NO.	CLASS	TYPE	CRIMP RANGE	TOOL QTY
TT	HDBTC	PROFESSIONAL	HEAVY DUTY	25–120mm ²	1
	SHDBTC	PROFESSIONAL	EXTRA HEAVY DUTY	8–6/0 AWG	1
	SHDBTCBM	EXTRA HEAVY DUTY	BENCH MOUNT	8–6/0 AWG	1



HD0650, HD6120

CRIMP TOOLS – HAND HYDRAULIC

CODE	PART NO.	CLASS	TYPE	CRIMP RANGE	TOOL QTY
TT	HYD16/300	12 TONNE	HAND TOOL	16–300mm ²	1



HDBTC



HYD16/300

BATTERY CRIMPING TOOLS AND DIES

PART NO.	CLASS	BATTERY	CRIMP RANGE	POWER	WEIGHT
BAT-6431BB	12 Tonne	Lithium-ion	MAX 300mm ²	14.4VDC	5.8KG

FEATURES

- Battery operated 12T compression tool for applying copper, aluminium and ACSR conductors
- Pistol type 12 tonne tool makes it easier for working in confined spaces
- The trigger switch and return button are activated by only one hand so the other hand is always free to hold working material
- New electronic circuit board with LED indicates compression status and battery capacity

INCLUDES

- 2 x Lithium-ion batteries
- Battery charger (12VDC-240VAC)
- Carry case
- Shoulder strap

DETAILS

- Dies are sold separately
- Compatible with Copper and Aluminium dies
- Rapid ram advance mechanism
- Well balanced design
- 14.4 VDC powerful motor
- Right or Left handed operation
- 350 degree swivel head
- Quality backed by ISO9001

SPECIFICATIONS

- Ram stroke 31mm (Jaw opening)
- Capacity Max 300mm² AL/CU
- Motor 14.4VDC
- Reservoir capacity 135cc
- Force at die face 106kN
- Size 392 (L) X 343 (H) X 70 (W) mm
- Weighs 5.8kg with Lithium-ion Battery

NEW



COPPER HEX CRIMP DIES – 12 TONNE

CODE	PART NO.	DIE TYPE	DIE TYPE	CRIMP RANGE	TOOL QTY
TT	HYD16	COPPER	HEX	16mm ²	1 SET
	HYD25	COPPER	HEX	25mm ²	1 SET
	HYD35	COPPER	HEX	35mm ²	1 SET
	HYD50	COPPER	HEX	50mm ²	1 SET
	HYD70	COPPER	HEX	70mm ²	1 SET
	HYD95	COPPER	HEX	95mm ²	1 SET
	HYD120	COPPER	HEX	120mm ²	1 SET
	HYD150	COPPER	HEX	150mm ²	1 SET
	HYD185	COPPER	HEX	185mm ²	1 SET
	HYD240	COPPER	HEX	240mm ²	1 SET
	HYD300	COPPER	HEX	300mm ²	1 SET



COPPER CRIMP DIE 16-300

CABLE CUTTERS

DRILL OPERATED

The **CARROLL** drill operated Copper and Aluminium rated cable cutters make the task of cutting large diameter cables effortless. Simply attach the cutter mechanism to any hand held power drill. Supplied in a foam lined hard case for storage and mobility. Blades have a HRC rating of 48–52 at 150 kg.

CODE	PART NO.	WIRE RANGE DIA.	TYPE	TOOL QTY
TT	DOC55	55mm	DRILL-OPERATED	1
	DOC100	100mm	DRILL-OPERATED	1



LONG HANDLED

CARROLL's range of long handled cable cutters feature forged blades for long blade life and effortless cutting.

CODE	PART NO.	WIRE RANGE	LENGTH	TYPE	TOOL QTY
TT	LHCC125	125mm ²	300mm	PIVOT	1
	LHCC250	250mm ²	545mm	PIVOT	1
	LHCC500	500mm ²	800mm	PIVOT	1



ALUMINIUM

CODE	PART NO.	WIRE RANGE	LENGTH	TYPE	TOOL QTY
TT	CC38	38mm ²	210mm	ONE HAND	1
	CC60	60mm ²	230mm	ONE HAND	1
	CC70	70mm ²	185mm	ONE HAND	1
	CC185	185mm ²	580mm	RATCHET	1
	CC300R *	400mm ² (max)	260mm	RATCHET	1

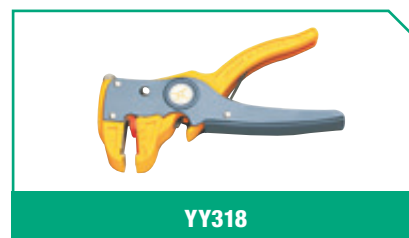
*CC300R can also cut Copper Cable Max 400mm²



CABLE STRIPPERS

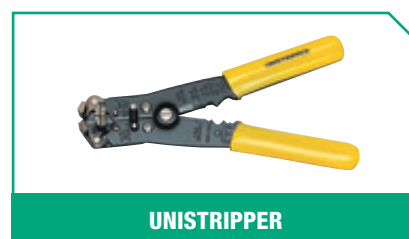
- Screw knob cutting depth adjustment
- Automatic clamping
- Impact resistant plastic body

CODE	PART NO.	TYPE	WIRE RANGE	TOOL QTY
TT	YY319	PROFESSIONAL	16–70mm ²	1



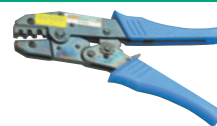
WIRE STRIPPERS

CODE	PART NO.	TYPE	WIRE RANGE	TOOL QTY
TT	YY318	END STRIPPER	1.0–6mm ²	1
	UNISTRIPPER	TOP STRIPPER	0.5–5.3mm ²	1



HARNESSFLEX CONNECTOR INSTALLATION TOOLS

CODE	PART NO.	TOOL TYPE	STYLE	CRIMP RANGE	TOOL QTY
TT	MULTIPLIER	PROFESSIONAL	PLIERS	1.5–6.0mm ²	1
	F0560	CRIMP	RATCHET	0.5–6.0mm ²	1
	ET16	EXTRACTION	HAND	CONTACTS	1
	ET35	EXTRACTION	HAND	CONTACTS	1



F0560

TOOLS – WEATHER PACK CONNECTORS

CODE	PART NO.	TOOL TYPE	STYLE	CRIMP RANGE	TOOL QTY
TT	12014254	CRIMP	RATCHET	CONTACT AND SEALS 0.5–2mm ²	1
	12085270	CRIMP	RATCHET	SEALS AND CAVITY PLUGS ONLY	1
	12085271	CRIMP	RATCHET	CONTACTS ONLY 0.5–2mm ²	1
	12014012	EXTRACTION	HAND	CONTACTS	1



ET16



12014254

TOOLS – AMPHENOL CONNECTORS

CODE	PART NO.	TOOL TYPE	TOOL QTY
TT	QKATRT-100	CONTACT AND WEDGE REMOVAL	1
	QKAT-RC1100	HAND CRIMP	1

Note: Also compatible with DT connectors.



Amphenol
Sensata

QKAT-RC1100

CABLE TIE GUNS

CODE	PART NO.	TIE RANGE	SUIT TIE	FEATURE	TOOL QTY
TT	YYT6	2.2–4.8mm	NYLON	BUDGET	1
	CTGM	2.2–4.8mm	NYLON	AUTOMATIC	1
	CTGHD	3.6–9.0mm	NYLON	HEAVY DUTY	1
	CTGSS	4.6–7.9mm	STAINLESS STEEL	AUTOMATIC	1



CTGM

HEAT GUNS

CODE	PART NO.	TYPE L x W x H	FEATURE	TOOL QTY
TT	HG2000	HEAT GUN	2000 Watt	1



CTGSS

STORAGE BOXES

CODE	PART NO.	BOX CONSTRUCTION	DIMENSIONS L x W x H	DIVISIONS	QTY
TT	KBGS21	SMALL METAL	347 x 262 x 45	21	1
	KBG21	LARGE METAL	470 x 310 x 80	21	1
	RC001	LARGE PLASTIC	370 x 370 x 85 (+ HANDLE 55)	21	1
	PB18	SMALL PLASTIC	318 x 205 x 48	18	1
	KBS	SMALL PLASTIC	270 x 173 x 48	11	1
	9929-001	METAL	708 x 225 x 76	6	1



HG2000



KIT BOX

KITS

Application Specific Pre-Packaged Kits

96-97

KITS



KITS

PART NO.	CONTENTS
TERMINAL KIT WITH TOOL - 500 PIECE	
KBG500P	20 x Assorted Popular Pre-Insulated Terminals 1 x 0560 Crimping Tool 1 x Metal Box
TERMINAL KIT WITH TOOL - 1325 PIECE	
KBGS1325P	20 x Assorted Popular Pre-Insulated Terminals 1 x 0560 Ratchet Tool 1 x Metal Box
TERMINAL KIT - 785 PIECE	
PBTKIT	18 x Assorted Popular Pre-Insulated Terminals 1 x Plastic Box
HEAT SHRINKABLE TERMINAL KIT - 350 PIECE	
SEALIT-KIT	18 x Assorted Popular Heat Shrink Sealed Terminals 1 x Plastic Box
PROFESSIONAL LUG KIT - 470 PIECE	
KBGS470P	Assorted Professional Lug Range 1 x Metal Box 1 x HD0510 Tool
HEAT SHRINK TUBING KIT	
HSKB	Assorted Red & Black Colours General Purpose - Thin Wall Tubing Sizes Range 2mm-25mm 1 x Plastic Box



KITS

PART NO.	CONTENTS
QK SERIES CONNECTOR KIT - 45 SETS	
PBQKIT	1-8 Circuit Connectors & Terminals 1 x Plastic box
WEATHERPACK SEALED CONNECTOR KIT	
WPKIT	1-6 Circuit Connectors, Terminals & Seals 1 x Plastic box
ASSORTED FUSE KIT	
PBFKIT	3AG, Mini & Standard Blade Fuse Holders 1 x Plastic box
GLASS FUSE KIT	
GF100A	Selection of Glass Fuses 1 x Fuse puller 1 x Plastic box
STANDARD BLADE FUSE KIT	
BF100A	Selection of Standard Blade Fuses 1 x Fuse puller 1 x Plastic box
MINI BLADE FUSE KIT	
BFM100A	Selection of Mini Blade Fuses 1 x Fuse puller 1 x Plastic box
CERAMIC FUSE KIT	
CF100A	Selection of Ceramic Fuses 1 x Fuse Puller 1 x Plastic Box



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CARROLL Catalogue Version CA-15

Effective MAY 2015

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