

# Installation Materials Catalogue





## Electrical Cable Fixings and Materials to help you get your next job done!

From wall plugs to screws; anchors to cable reels; power tool accessories to LED work lights, forty years has seen the Thorsman, JoJo and Tower product ranges grow from a handful of products to the extensive range we see today.

### 18<sup>th</sup> Edition Fire-Resistant Supports

From cable clips to masonry screws, a comprehensive range of fixings to help you comply with the 18<sup>th</sup> Edition of the Wiring Regulations.



### Sealants and Adhesives

Advanced suite of high-specification sealants, adhesives, caulk, expanding foams and super glue.

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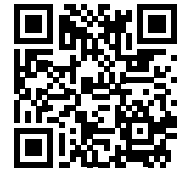
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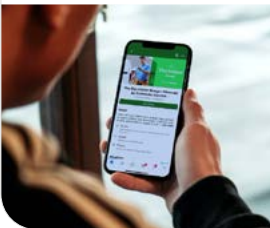
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For more information, please ask your local Installation Materials sales representative.

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## Cable reels and Extension leads

Cable reels and Extension leads



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## Fixings

Screws, Cavity fixings, Roofing nuts and bolts, Penny washers, Anchors, Masonry nails, Drywall screws and other fixings.



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## Test Instruments

Digital multimeter - category III - 300 V, Multipurpose digital detector, 3-in-1 detector, Multifunction cable tracer, Infrared thermometer, Moisture meter, Voltage detector pen, Compact multimeter - category III, Analogue multimeter - category III, Digital clamp meter - category III - 600 V, British standard socket tester



# Cable Clips & Electrical Fixings

## Thorsman clips premium - TC



Product code	Description	Pack quantity
Round clips		
2001008	TC 2 - 3mm clear, telephone - 2 pair	100 x 10
2011005	TC 3 - 5mm clear, telephone - 4 pair	100 x 10
2011017	TC 3 - 5mm white, telephone - 4 pair	100 x 10
2011021	TC 3 - 5mm grey, telephone - 4 pair	100 x 10
2022009	TC 5 - 7mm clear, 2 core flexible	100 x 10
2022010	TC 5 - 7mm white, 2 core flexible	100 x 10
2022029	TC 5 - 7mm black, 2 core flexible	100 x 10
2032011	TC 7 - 10mm white, 3 core flexible	100 x 10
2032041	TC 7 - 10mm black, co-axial	100 x 10
2032091	TC 7 - 10mm brown, co-axial	100 x 10
2032061	TC 7 - 10mm red, co-axial	100 x 10
2041200	TC 8 - 12mm white, co-axial	100 x 10
2041259	TC 8 - 12mm grey	100 x 10
2042011	TC 10 - 14mm white	100 x 10
2042021	TC 10 - 14mm grey	100 x 10
2042041	TC 10 - 14mm black	100 x 10
2052011	TC 14 - 20mm white	100 x 10
2052051	TC 14 - 20mm black	100 x 10
2060002	TC 18 - 22mm white	50 x 10
2060135	TC 18 - 22mm black	50 x 10
2070209	TC 22 - 26mm white	50 x 10
2070134	TC 22 - 26mm black	50 x 10
Flat clips		
2101004	TC 2 x 4 clear, bell wire	100 x 10
2106003	TC 3 x 5 clear, 2812X	100 x 10
2111003	TC 4 x 6 clear, 3219Y	100 x 10
2116010	TC 5 x 8 white, 1 and 1.5mm <sup>2</sup> T&E	100 x 10
2116028	TC 5 x 8 grey, 1 and 1.5mm <sup>2</sup> T&E	100 x 10
2126019	TC 6 x 10 white, 2.5mm <sup>2</sup> T&E	100 x 10
2126027	TC 6 x 10 grey, 2.5mm <sup>2</sup> T&E	100 x 10
2131019	TC 7 x 14 white, 4 and 6mm <sup>2</sup> T&E	100 x 10
2131027	TC 7 x 14 grey, 4 and 6mm <sup>2</sup> T&E	100 x 10
2136018	TC 9 x 18 white, 10 and 16mm <sup>2</sup> T&E	100 x 10
2136026	TC 9 x 18 grey, 10 and 16mm <sup>2</sup> T&E	100 x 10
2137014	TC 11 x 22 white	100 x 10
Double flat clips		
2141026	TCD 5 x 8 grey, 2 x 1 and 1.5mm <sup>2</sup> T&E	100 x 10
2146025	TCD 6 x 10 grey, 2 x 2.5mm <sup>2</sup> T&E	100 x 10

- For use in wood, compressed board and mortar.
- Flexible design for use with various cable sizes
- Manufactured from impact resistant polypropylene which combines strength and elasticity
- Supplied with a zinc plated hardened steel nail
- Halogen free
- Packed in full colour printed boxes



## Thorsman clips standard - TCA



Product code	Description	Pack quantity
Round clips		
2201000A	TCA 3 - 5mm clear, telephone - 4 pair	100 x 10
2201001A	TCA 3 - 5mm white, telephone - 4 pair	100 x 10
2202011A	TCA 5 - 7mm clear, 2 core flexible	100 x 10
2202000A	TCA 5 - 7mm white, 2 core flexible	100 x 10
2202005A	TCA 5 - 7mm black, 2 core flexible	100 x 10
2203000A	TCA 7 - 9mm white, 3 core flexible	100 x 10
2203002A	TCA 7 - 9mm black, co-axial	100 x 10
2203004A	TCA 7 - 9mm brown, co-axial	100 x 10
2203005A	TCA 7 - 9mm red, co-axial	100 x 10
2205000A	TCA 10 - 13mm white	100 x 10
2205002A	TCA 10 - 13mm black	100 x 10
2206000A	TCA 14 - 20mm white	100 x 10
2206002A	TCA 14 - 20mm black	100 x 10
Flat clips		
2210000A	TCA 2 x 4 clear, bell wire	100 x 10
2211000A	TCA 3 x 5 clear, 2812Y	100 x 10
2212000A	TCA 4 x 6 clear, 3192Y	100 x 10
2213000A	TCA 5 x 8 white, 1 and 1.5mm <sup>2</sup> T&E	100 x 10
2213001A	TCA 5 x 8 grey, 1 and 1.5mm <sup>2</sup> T&E	100 x 10
2214000A	TCA 6 x 10 white, 2.5mm <sup>2</sup> T&E	100 x 10
2214001A	TCA 6 x 10 grey, 2.5mm <sup>2</sup> T&E	100 x 10
2215000A	TCA 7 x 14 white, 4 and 6mm <sup>2</sup> T&E	100 x 10
2215001A	TCA 7 x 14 grey, 4 and 6mm <sup>2</sup> T&E	100 x 10

- For use in wood, compressed board and mortar.
- Flexible design for use with various cable sizes
- Manufactured from impact resistant polypropylene which combines strength and elasticity
- Supplied with a zinc plated hardened steel nail
- Packed in plain white boxes



## Self adhesive clips



Product code	Description	Pack quantity
Standard clips		
65SA04W	Up to 4mm diameter	25
65SA08W	Up to 8mm diameter	25
65SA12W	Up to 12mm diameter	25
Cable tie carrier		
65CT05B	Maximum width of cable tie 5mm	25

- The ideal cable fixing where a nail-in application would be impossible or unacceptable



## Tower clips



Product code	Description	Pack quantity
Round clips		
70CWRC275	2.75mm white	100 x 10
70CWRC35	3.5mm white	100 x 10
70CBRC4	4mm black	100 x 10
70CWRC4	4mm white	100 x 10
70CBRC5	5mm black	100 x 10
70CWRC5	5mm white	100 x 10
70CBRC6	6mm black	100 x 10
70CWRC6	6mm white	100 x 10
70CBRC7	7mm black	100 x 10
70CWRC7	7mm white	100 x 10
70CBRC8	8mm black	100 x 10
70CWRC8	8mm white	100 x 10
70CBRC9	9mm black	100 x 10
70CWRC9	9mm white	100 x 10
70CBRC10	10mm black	100 x 10
70CWRC10	10mm white	100 x 10
70CBRC11	11mm black	100 x 10
70CWRC11	11mm white	100 x 10
70CBRC12	12mm black	100 x 10
70CWRC12	12mm white	100 x 10
70CBRC14	14mm black	50 x 10
70CWRC14	14mm white	50 x 10
70CBRC16	16mm black	50 x 10
70CWRC16	16mm white	50 x 10
Flat twin and earth clips		
70CGKF10	1mm <sup>2</sup> grey, 6242Y	100 x 100
70CGKF15	1.5mm <sup>2</sup> grey, 6242Y	100 x 100
70CGKF25	2.5mm <sup>2</sup> grey, 6242Y	100 x 100
70CGKF40	4mm <sup>2</sup> grey, 6242Y	100 x 10
70CGKF60	6mm <sup>2</sup> grey, 6242Y	100 x 10
70CGKF100	10mm <sup>2</sup> grey, 6242Y	100 x 10
70CGKF160	16mm <sup>2</sup> grey, 6242Y	100 x 10
Flat three core and earth clips		
70CG3CE	1mm <sup>2</sup> and 1.5mm <sup>2</sup> grey	100 x 10
Flat double clips		
70CGDKF15	1 / 1.5mm <sup>2</sup> grey, 6242Y	100 x 10
70CGDKF25	2.5mm <sup>2</sup> grey, 6242Y	100 x 10
Flat parallel twin clips		
70CWPT	Bell wire white	100 x 10
70CWPM	0.50mm <sup>2</sup> white, 2812X	100 x 10
70CWSM	0.75mm <sup>2</sup> white, 3192Y	100 x 10

- For use in wood, compressed board and mortar.
- Manufactured from polypropylene which combines strength and elasticity
- Supplied with a zinc plated hardened steel nail

## Tower clips continued



Product code	Description	Pack quantity
TV cable and satellite clips		
72CB05P	5 - 6mm black, co-axial cable	100 x 10
72CT05P	5 - 6mm brown, co-axial cable	100 x 10
72CW05P	5 - 6mm white, co-axial cable	100 x 10
72CB06P	6 - 7mm black, co-axial cable	100 x 10
72CT06P	6 - 7mm brown, co-axial cable	100 x 10
72CW06P	6 - 7mm white, co-axial cable	100 x 10
72CB07P	7 - 8mm black, co-axial cable	100 x 10
72CW07P	7 - 8mm white, co-axial cable	100 x 10
72CBKF40	4mm T&E black	100 x 10
72CBKF60	6mm T&E black	50 x 10

## Tower plus clips



Product code	Description	Pack quantity
Round plus clips		
77CB04P	4 - 5mm black	200 x 10
77CW04P	4 - 5mm white	200 x 10
77CB05P	5 - 6mm black	100 x 10
77CW05P	5 - 6mm white	100 x 10
77CB06P	6 - 7mm black	100 x 10
77CW06P	6 - 7mm white	100 x 10
77CR06P	6 - 7mm red	100 x 10
77CB07P	7 - 8mm black	100 x 10
77CW07P	7 - 8mm white	100 x 10
77CR07P	7 - 8mm red	100 x 10
77CB09P	9 - 11mm black	100 x 10
77CW09P	9 - 11mm white	100 x 10
77CR09P	9 - 11mm red	100 x 10
77CB12PAC	12 - 14mm black	100 x 10
77CW12PAC	12 - 14mm white	100 x 10
77CB15PAC	15 - 18mm black	100 x 10
77CW15P	15 - 18mm white	100 x 10
77CB19P	19 - 24mm black	50 x 10
77CW19P	19 - 24mm white	50 x 10
77CB25P	25 - 28mm black	50 x 10
77CW25P	25 - 28mm white	50 x 10
Flat plus twin and earth clips		
77CGPF1P	1 / 1.5mm <sup>2</sup> 6242Y grey	100 x 100
77CGPF25P	2.5mm <sup>2</sup> 6242Y grey	100 x 100
77CGPF4P	4 / 6mm <sup>2</sup> 6242Y grey	100 x 10
77CGPF10P	10mm <sup>2</sup> 6242Y grey	50 x 10

- For use in wood, compressed board and mortar.
- Manufactured from polypropylene which combines strength and elasticity
- Supplied with a zinc plated hardened steel nail
- Plus clip features a return 'hook' that holds cables tightly. Ideal for use in computer and communication installations where cables may vary in size

# Tower to Thorsman conversion chart

Article No.	Description	Cable Size		Article No.	Description	Cable Size
<b>Tower Round clips</b>				<b>Thorsman Equivalent</b>		
70CWRC 275	White	2.75mm	>	2001 008	TC 2-3 Clear	2.0 - 3.0mm
70CBRC 275	Black	2.75mm				
70CGRC 275	Grey	2.75mm				
70CWRC 35	White	3.5mm				
70CBRC 35	Black	3.5mm	>	2011 017	TC 3-5 White	3.0 - 5.0mm
70CGRC 35	Grey	3.5mm		2011 005	TC 3-5 Clear	
				2011 021	TC 3-5 Grey	
70CWRC 4	White	4.0mm				
70CBRC 4	Black	4.0mm				
70CGRC 4	Grey	4.0mm				
70CWRC 5	White	5.0mm				
70CBRC 5	Black	5.0mm				
70CGRC 5	Grey	5.0mm				
70CWRC 6	White	6.0mm	>	2022 010	TC 5-7 White	5.0 - 7.0mm
70CBRC 6	Black	6.0mm		2022 029	TC 5-7 Black	
70CGRC 6	Grey	6.0mm		2022 039	TC 5-7 Grey	
70CWRC 7	White	7.0mm				
70CBRC 7	Black	7.0mm				
70CGRC 7	Grey	7.0mm				
70CWRC 8	White	8.0mm				
70CBRC 8	Black	8.0mm	>	2032 011	TC 7-10 White	7.0 - 10.0mm
70CGRC 8	Grey	8.0mm		2032 041	TC 7-10 Black	
				2032 021	TC 7-10 Grey	
70CWRC 9	White	9.0mm				
70CBRC 9	Black	9.0mm				
70CGRC 9	Grey	9.0mm				
70CWRC 10	White	10.0mm				
70CBRC 10	Black	10.0mm				
70CGRC 10	Grey	10.0mm				
70CWRC 11	White	11.0mm				
70CBRC 11	Black	11.0mm	>	2041 011	TC 10-14 White	10.0 - 14.0mm
70CGRC 11	Grey	11.0mm		2042 041	TC 10-14 Black	
				2042 021	TC 10-14 Grey	
70CWRC 12	White	12.0mm				
70CBRC 12	Black	12.0mm				
70CGRC 12	Grey	12.0mm				
70CWRC 14	White	14.0mm				
70CBRC 14	Black	14.0mm				
70CGRC 14	Grey	14.0mm				
70CWRC 16	White	16.0mm	>	2052 011	TC 14-20 White	14.0 - 20.0mm
70CBRC 16	Black	16.0mm		2052 051	TC 14-20 Black	
70CGRC 16	Grey	16.0mm		2052 021	TC 14-20 Grey	
<b>Tower Flat clips</b>				<b>Thorsman Equivalent</b>		
70CWPT	White	Bell Wire	>	2101 004	TC 2 x 4 Clear	Bellwire
70CBPT	Black	Bell Wire				
70CWPM	White	0.50mm <sup>2</sup>	>	2106 003	TC 3 x 5 Clear	0.50mm <sup>2</sup>
70CBPM	Black	0.50mm <sup>2</sup>				
70CWSM	White	0.75mm <sup>2</sup>	>	2111 003	TC 4 x 6 Clear	0.75mm <sup>2</sup>
70CWKF 10	White	1.0mm <sup>2</sup>				
70CGKF 10	Grey	1.0mm <sup>2</sup>				
70CBKF 10	Black	1.0mm <sup>2</sup>				
70CWKF 15	White	1.5mm <sup>2</sup>	>	2116 010	TC 5 x 8 White	1.0mm <sup>2</sup> & 1.5mm <sup>2</sup>
70CGKF 15	Grey	1.5mm <sup>2</sup>		2116 028	TC 5 x 8 Grey	
70CBKF 15	Black	1.5mm <sup>2</sup>				
70CWKF 25	White	2.5mm <sup>2</sup>				
70CGKF 25	Grey	2.5mm <sup>2</sup>	>	2126 019	TC 6 x 10 White	2.5mm <sup>2</sup>
70CBKF 25	Black	2.5mm <sup>2</sup>		2126 027	TC 6 x 10 Grey	
70CWKF 40	White	4.0mm <sup>2</sup>				
70CGKF 40	Grey	4.0mm <sup>2</sup>				
70CBKF 40	Black	4.0mm <sup>2</sup>				
70CWKF 60	White	6.0mm <sup>2</sup>	>	2131 019	TC 7 x 14 White	4.0mm <sup>2</sup> & 6.0mm <sup>2</sup>
70CGKF 60	Grey	6.0mm <sup>2</sup>		2131 027	TC 7 x 14 Grey	
70CBKF 60	Black	6.0mm <sup>2</sup>				
70CWKF 100	White	10.0mm <sup>2</sup>				
70CGKF 100	Grey	10.0mm <sup>2</sup>				
70CBKF 100	Black	10.0mm <sup>2</sup>				
70CWKF 160	White	16.0mm <sup>2</sup>	>	2136 026	TC 9 x 18 White	10.0mm <sup>2</sup> & 16.0mm <sup>2</sup>
70CGKF 160	Grey	16.0mm <sup>2</sup>		2136 026	TC 9 x 18 Grey	
70CBKF 160	Black	16.0mm <sup>2</sup>				
<b>Tower 3Core &amp; Earth Clips</b>						
70CW3CE	White	1.0 & 1.5mm <sup>2</sup>	>	2126 019	TC 6 x 10 White	1.0 & 1.5mm <sup>2</sup>
70CG3CE	Grey	1.0 & 1.5mm <sup>2</sup>		2126 027	TC 6 x 10 Grey	
<b>Tower Double Clips</b>						
70CWDKF 15	White	1.0 / 1.5mm <sup>2</sup>	>	2141 018	TCD 5 x 8 White	1.0 & 1.5mm <sup>2</sup>
70CGDKF 15	Grey	1.0 / 1.5mm <sup>2</sup>		2141 026	TCD 5 x 8 Grey	
70CWDKF 25	White	2.5mm <sup>2</sup>	>	2146 017	TCD 6 x 10 White	2.5mm <sup>2</sup>
70CGDKF 25	Grey	2.5mm <sup>2</sup>		2146 025	TCD 6 x 10 Grey	

# BS7671 amendment 3 solutions



**We also sell a BS7671 amendment 3 consumer unit!**  
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## Fire safety clips (18th Edition)



Product code	Description	Pack quantity
Fire safety clips		
ISM99930	Small 25/30mm	100
ISM99940	Medium 40mm	50
ISM99950	Large 50mm	50
Stainless steel conduit saddles		
2390405	20mm	100
2390415	25mm	100

- Fire safety clips designed to prevent collapsing of cables in hazardous situations, maintaining clear exit routes
- Tested and approved to meet the requirements of BS7671 amendment 3
- Quick and easy fitting through fold over tabs
- Zinc plated steel with a melting point over 1000°C
- Compatible with 16 x 16mm and 25 x 16mm trunking and 2 core 1.5mm<sup>2</sup> fire performance cables

## Masonry screws (18th Edition)



Product code	Description	Pack quantity
Masonry screws		
3703210	4.8 x 32mm	100
3703215	4.8 x 45mm	100

- Compatible with new fire safety clips and stainless steel conduit saddles, to comply with BS7671 amendment 3
- Other masonry screw sizes available on p6/50

## Compression grommets



Product code	Description	Pack quantity
Halogen free		
IMT36179	3 - 5mm grey halogen free (12.5mm knock out)	50
IMT36180	5 - 7mm grey halogen free (16mm knock out)	50
IMT37303	7 - 10mm grey halogen free (19mm knock out)	50
IMT37307	10 - 14mm grey halogen free (23mm knock out)	50
IMT37311	14 - 20mm grey halogen free (29mm knock out)	50
Fire retardant		
IMT37300	3 - 5mm black fire retardant (12.5mm knock out)	50
IMT37320	5 - 7mm black fire retardant (16mm knock out)	50
IMT37304	7 - 10mm black fire retardant (19mm knock out)	50
IMT37308	10 - 14mm black fire retardant (23mm knock out)	50

- Available in grey halogen free EPDM and black fire retardant chloroprene materials
- Designed to completely seal against dust and water to IP67
- Wide sealing range for each size of product
- Compatible with Easy 9+ to support compliance with BS7671 amendment 3

## PVC cable grommets



Product code	Description	Pack quantity
Standard type		
3280210	20mm open	100
3280215	20mm closed	100
3280220	25mm open	50
3280225	25mm closed	50
Quick fit type		
3280010	20mm open	100
3280015	20mm closed	100
3280020	25mm open	50
3280035	25mm closed	50

- Designed to prevent cable chafing through trunking and electrical boxes
- Available in standard and quick fit designs
- Compatible with Easy 9+ to support compliance with BS7671 amendment 3

## Low smoke and fume clips & saddles (18th Edition)



Product code	Description	Pack quantity
<b>Clips</b>		
64LSF26R	6.5 - 6.9mm diameter red	50
64LSF26W	6.5 - 6.9mm diameter white	50
64LSF28R	7 - 7.4mm diameter red	50
64LSF28W	7 - 7.4mm diameter white	50
64LSF30R	7.5 - 7.9mm diameter red	50
64LSF30W	7.5 - 7.9mm diameter white	50
64LSF32R	8 - 8.4mm diameter red	50
64LSF32W	8 - 8.4mm diameter white	50
64LSF34R	8.5 - 9.2mm diameter red	50
64LSF34W	8.5 - 9.2mm diameter white	50
64LSF37R	9.3 - 10mm diameter red	50
64LSF37W	9.3 - 10mm diameter white	50
64LSF40R	10.1 - 10.7mm diameter red	50
64LSF40W	10.1 - 10.7mm diameter white	50
64LSF43R	10.8 - 11.7mm diameter red	50
64LSF43W	10.8 - 11.7mm diameter white	50
<b>Saddles</b>		
64LSF272W	6.3 - 6.9mm diameter white	50
64LSF302R	7 - 7.7mm diameter red	50
64LSF342R	7.8 - 9mm diameter red	50
64LSF342W	7.8 - 9mm diameter white	50

- Clips for soft skin fire performance cables
- Copper clips with LSF coating - complies to: BS 476. Part 6, BS 476. Part 7, BS 6853, BS EN 60332, UL 94 vertical burn test

## LSF sizing chart

Cable size	One hole 'P' clip		Two hole 'Saddle' clip	
	MICC cable	FP200 cable	MICC cable	FP200 cable
2 core 1mm <sup>2</sup>	64LSF26R	64LSF32R		64LSF302R
	64LSF26W	64LSF32W	64LSF272W	
3 core 1mm <sup>2</sup>	64LSF28R	64LSF32R	64LSF302R	64LSF302R
	64LSF28W	64LSF32W		
4 core 1mm <sup>2</sup>	64LSF30R	64LSF32R	64LSF342R	64LSF342R
	64LSF30W	64LSF32W	64LSF342W	64LSF342W
2 core 1.5mm <sup>2</sup>	64LSF28R	64LSF32R	64LSF302R	64LSF302R
	64LSF28W	64LSF32W		
3 core 1.5mm <sup>2</sup>	64LSF30R	64LSF32R	64LSF342R	64LSF342R
	64LSF30W	64LSF32W	64LSF342W	64LSF342W
4 core 1.5mm <sup>2</sup>	64LSF34R	64LSF37R	64LSF342R	
	64LSF34W	64LSF37W	64LSF342W	
2 core 2.5mm <sup>2</sup>	64LSF32R	64LSF37R	64LSF342R	
	64LSF32W	64LSF37W	64LSF342W	
3 core 2.5mm <sup>2</sup>	64LSF34R	64LSF40R	64LSF342R	
	64LSF34W	64LSF40W	64LSF342W	
4 core 2.5mm <sup>2</sup>	64LSF37R	64LSF43R	64LSF342R	
	64LSF37W	64LSF43W	64LSF342W	
2 core 4.0mm <sup>2</sup>	64LSF37R	64LSF43R		
	64LSF37W	64LSF43W		

- This chart is intended as a guide only. Please check the actual cable dimensions against the clip dimensions to ensure the exact selection. Schneider Electric cannot accept responsibility for an incorrect selection

# Wall plugs and trade tubs

## Wall plugs - TP



Product code	Description	Pack quantity
1001007	TP 1 yellow	100 x 10
1003003	TP 2 red	100 x 10
1005008	TP 2B brown	100 x 10
IMT48000	TP 3 blue	100 x 10
IMT48001	TP 4 green	50 x 10

- Red, brown and yellow plugs supplied on a sprue of 10
- Green and blue plugs supplied loose
- Dual expansion giving high load values
- Packed in full colour printed boxes

## Wall plugs economy - TPA



Product code	Description	Pack quantity
1090600	TPA 1 yellow	100 x 10
1090605	TPA 2 red	100 x 10
1090720	TPA 2 red bulk	100 x 250
1090610	TPA 2B brown	100 x 10
1090725	TPA 2B brown bulk	100 x 200
1090615	TPA 3 blue	100 x 10

- Supplied loose
- Dual expansion giving high load values
- Packed in plain boxes
- Outer quantities available

## Trade tubs



Product code	Description	Pack quantity
<b>Fixings</b>		
1776015	500 red wall plugs, 500 8 x 1½" twin thread wood screws, 1 masonry bit 6 x 100mm and 1 pozi driver bit no.2 x 50mm	8
1776020	1 masonry bit 7 x 100mm and 1 pozi driver bit no.2 x 50mm	8
1776111	200 metal cavity fixings, 200 screws and 2 pozi driver bits no.2 x 50mm	8
1776200	500 4 x 60mm green decking screws and 2 pozi driver bits no.2 x 50mm	8
<b>Tower clips</b>		
05TUB04	400 1/1.5mm <sup>2</sup> and 400 2.5mm <sup>2</sup> flat grey T&E cable clips	8
05TUB05	400 1/1.5mm <sup>2</sup> and 400 2.5mm <sup>2</sup> flat grey plus T&E cable clips	8
<b>Thorsman clips</b>		
1776112	400 1/1.5mm <sup>2</sup> and 400 2.5mm <sup>2</sup> flat grey T&E cable clips	4

- An excellent range of fixings and clips in a durable, re-sealable plastic tub with a carry handle
- Quality fixings offering superb value

# Tapes and PVC sleeving

## PVC insulation tape



Product code	Description	Pack quantity
2420100	19mm x 20m red	8
2420101	19mm x 20m yellow	8
2420102	19mm x 20m blue	8
2420103	19mm x 20m black	8
2420104	19mm x 20m white	8
2420105	19mm x 20m yellow / green	8
2420106	19mm x 20m green	8
2420107	19mm x 20m brown	8
2420108	19mm x 20m grey	8
2420110	19mm x red	8
2420111	19mm x 33m yellow	8
2420112	19mm x 33m blue	8
2420113	19mm x 33m black	8
2420114	19mm x 33m white	8
2420115	19mm x 33m yellow / green	8
2420116	19mm x 33m brown	8
2420117	19mm x 33m green	8
2420118	19mm x 33m grey	8
2420300	50mm x 33m red	3
2420301	50mm x 33m yellow	3
2420302	50mm x 33m blue	3
2420303	50mm x 33m black	3
2420304	50mm x 33m white	3

- Manufactured from flame retardant self extinguishing PVC to BS EN 60454
- Suitable for electrical insulation, binding, colour coding and general work
- Available in a range of sizes and colours

## PVC insulation tape



Product code	Description	Pack quantity
Gaffer tape		
2424000	50mm x 50m silver	1
2424004	50mm x 50m black	1
Waterproof ducting tape		
2424005	50mm x 50m black	1
Underground warning tape		
25EC365	150mm x 365m yellow	1

- Specialist electrical tapes for extreme weather conditions
- Ducting tape available for general purpose sealing and binding or heating and ventilation uses
- Self amalgamating for protection against corrosion and providing watertight seals
- Gaffer tape, general purpose cloth tape for sealing and protecting
- Underground warning tape message 'caution electric cable below'

## PVC sleeving



Product code	Description	Pack quantity
27GY2	Green/yellow 2mm	100m
27GY3	Green/yellow 3mm	100m
27GY4	Green/yellow 4mm	100m
27GY5	Green/yellow 5mm	100m
27GY6	Green/yellow 6mm	100m
27BN3	Brown 3mm	100m
27BN4	Brown 4mm	100m
27BU3	Blue 3mm	100m
27BU4	Blue 4mm	100m

- Sleeving is supplied in non-shrink PVC and is self extinguishing

# Cable ties and fixing bands

## Cable ties - TCT



Product code	Description	Pack quantity
Natural		
IMT46026	100 x 2.5mm	100
IMT46064	150 x 3.6mm	100
IMT46149	200 x 3.6mm	100
IMT46101	200 x 4.8mm	100
IMT46918	250 x 4.8mm	100
IMT46919	300 x 4.8mm	100
IMT46248	370 x 4.8mm	100
IMT46286	380 x 7.6mm	100
Black		
IMT46033	100 x 2.5mm	100
IMT46071	150 x 3.6mm	100
IMT46156	200 x 3.6mm	100
IMT46118	200 x 4.8mm	100
IMT46968	250 x 4.8mm	100
IMT46969	300 x 4.8mm	100
IMT46970	370 x 4.8mm	100
IMT46293	380 x 7.6mm	100

- Suitable for a wide range of applications including cable harnessing and cable fastening
- Manufactured from either natural or black 6.6 grade nylon
- UV resistant and complies to EN62275

## Cable tie plug



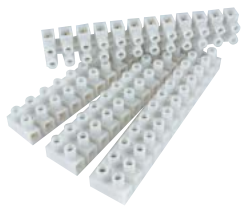
Product code	Description	Pack quantity
55CTP640B100	6 x 40mm (6mm drill)	100

- A quick and easy way of fixing pipes or cables by means of a cable tie
- Drill a 6mm hole, hammer in the fixing and insert the cable tie



# Connector strips, chocbox and grommets

## Connector Strips



Product code	Description	Pack quantity
Brass insert		
3000254	2.5 amp	10 strips
3000270	5 amp	10 strips
3000288	15 amp	10 strips
3000296	30 amp	10 strips
3000938	60 amp	5 strips
Steel insert		
3000410	2.5 amp	10 strips
3000420	5 amp	10 strips
3000430	15 amp	10 strips
3000440	30 amp	10 strips

- The tough yet flexible polypropylene construction allows you to snap off the desired amount of connector strips, removing the need for time consuming cutting
- Self extinguishing polypropylene construction eliminates the risk of fire from arching
- CE approved for use in working temperatures up to 85°C
- Compliant to EN 60998
- Steel insert for general use
- Brass insert for high performance, particularly where corrosion resistance is required

## Chocbox



Product code	Description	Pack quantity
CHOCBOXTH	Thorsman chocbox connector box	200
<b>Maximum capacities:</b>		
Connector size	With cordgrip	Without cordgrip
2 amp	8 pole	10 pole
5 amp	6 pole	8 pole
15 amp	4 pole	4 pole
30 amp	3 pole	3 pole

- The revolutionary connector cover that is the solution to protecting and insulating electrical connections
- Chocbox is a connector cover (2 - 30amp), a junction box (fixed wiring) and a conduit box
- Tested to BS EN60598-1 (13.3.2), 850°C glow-wire
- Connector strip not included

## Fixing bands



Product code	Description	Pack quantity
Straight edge fixing band - TGB		
2705110	12 x 0.7mm (10m)	1
2705310	20 x 0.7mm (25m)	1
2705320	20 x 1mm (10m)	1
2705420	25 x 2mm (10m)	1
Configuration 8 galvanised fixing band - TAG		
2700610	12 x 0.7mm (10m)	1
2700630	17 x 0.7mm (10m)	1
2700650	26 x 1mm (10m)	1
Configuration 8 plastic coated fixing band - TAP		
2700510	12 x 0.7mm black (10m)	1
2700511	12 x 0.7mm white (10m)	1
2700530	17 x 0.7mm black (10m)	1
Configuration 8 copper fixing band - TAC		
2700710	12 x 0.9mm (10m)	1

- All banding is suitable for suspended installations and anchoring in electrical, building, heating and ventilation installations
- Easy to cut and shape

# Cable gland kits

## LSF cable gland kits - 2 part



Product code	Description	Pack quantity
LBW20SK	20mm small	1
LBW20K	20mm	1
LBW25K	25mm	1
LBW32K	32mm	1
LBW40K	40mm	1
LBW50K	50mm	1
LBW63K	63mm	1

- Armoured cable gland kit contains clamping collar, gland, mounting nut, earth tag and shroud
- Sizes 20mm S to 32mm contain two of each component
- Sizes 40mm to 63mm contain one of each component
- Low smoke and fume coating complies to BS6121 part 1

## LSF cable gland kits IP rated - 2 part



Product code	Description	Pack quantity
LCW20SK	20mm small	1
LCW20K	20mm	1
LCW25K	25mm	1
LCW32K	32mm	1
LCW40K	40mm	1
LCW50K	50mm	1
LCW63K	63mm	1

- Armoured cable gland kit contains clamping collar, gland, mounting nut, earth tag and shroud
- Sizes 20mm S to 32mm contain two of each component
- Sizes 40mm to 63mm contain one of each component
- Low smoke and fume coating complies to BS6121 part 1
- Rated to IP66

## Brass BW cable gland kits – 2 part



Product code	Description	Pack quantity
MBW20SK	20mm small	1
MBW20K	20mm	1
MBW25K	25mm	1
MBW32K	32mm	1
MBW40K	40mm	1
MBW50K	50mm	1
MBW63K	63mm	1

- Armoured 2 part cable gland kit contains clamping collar, gland, mounting nut, earth tag and shroud
- Sizes 20mm S to 32mm contain two of each component
- Sizes 40mm to 63mm contain one of each component
- For indoor use

## Brass BW cable gland kits – 3 part



Product code	Description	Pack quantity
3BW20SK	20mm small	1
3BW20K	20mm	1
3BW25K	25mm	1
3BW32K	32mm	1
3BW40K	40mm	1
3BW50K	50mm	1
3BW63K	63mm	1

- Armoured 3 part cable gland kit contains clamping collar, clamping ring, gland, mounting nut, earth tag and shroud
- Sizes 20mm S to 32mm contain two of each component
- Sizes 40mm to 63mm contain one of each component
- For indoor use

# Cable gland kits, brass bushes & enclosures

## Brass CW cable gland kits IP rated - 4 part



Product code	Description	Pack quantity
MCW20SK	20mm small	1
MCW20K	20mm	1
MCW25K	25mm	1
MCW32K	32mm	1
MCW40K	40mm	1
MCW50K	50mm	1
MCW63K	63mm	1

- Armoured 4 part cable gland kit contains sealing collar, clamping collar, clamping ring, gland, mounting nut, earth tag and shroud
- Sizes 20mm S to 32mm contain two of each
- Sizes 40mm to 63mm contain one of each component
- For outdoor use
- Rated to IP66

## Brass bushes



Product code	Description	Pack quantity
MBM20S	20mm short male	10
MBM25S	25mm short male	10
MBM15S	1.5" short male	10
MBM20L	20mm long male	10
MBM32L	32mm long male	10

## Wall mounted industrial enclosures



Product code	Description	Pack quantity
M101005	100 x 100 x 50mm	1
M130806	130 x 80 x 55mm	1
M151107	150 x 110 x 70mm	1
M181407	180 x 140 x 70mm	1
M241808	240 x 190 x 90mm	1

- Adaptable box for a multitude of uses
- Manufactured from thermoplastic and rated to IP56
- Available in grey

# Glands

## Dome top glands



Product code	Description	Cable diameter	Pack quantity
MP16DW	16mm white	5 - 10mm	50
MP16DB	16mm black	5 - 10mm	50
MP202DW	20mm white	10 - 14mm	50
MP202DB	20mm black	10 - 14mm	50
MP202DR	20mm red	10 - 14mm	50
MP25DW	25mm white	13 - 18mm	25
MP25DB	25mm black	13 - 18mm	25
MP32DW	32mm white	18 - 25mm	20
MP32DB	32mm black	18 - 25mm	20

- For securing and terminating cable into a source
- Supplied complete with locknut
- IP68 rated submersible zero halogen
- CE marked
- Available in white, black or red

## Nylon glands



Product code	Description	Cable diameter	Pack quantity
Gland kits			
MPL20W	20mm small white	7 - 10.5mm	10
MPL20B	20mm small black	7 - 10.5mm	10
Glands only			
MP10B	10mm black	5 - 7mm	100
MP16W	16mm white	7 - 10.5mm	100
MP20W	20mm small white	7 - 10.5mm	100
MP20R	20mm small red	7 - 10.5mm	100
MP202R	20mm large red	8 - 13mm	100
MP25W	25mm small white	8 - 13mm	100
MP25B	25mm small black	8 - 13mm	100
MP25R	25mm small red	8 - 13mm	100
MP252W	25mm large white	12 - 18mm	100
Lock nuts only			
ML10B	10mm black	5 - 7mm	100
ML16W	16mm white	7 - 10.5mm	100
ML16B	16mm black	7 - 10.5mm	100
ML20W	20mm small white	7 - 10.5mm	100
ML20B	20mm small black	7 - 10.5mm	100
ML20R	20mm small red	7 - 10.5mm	100
ML25W	25mm small white	8 - 13mm	100
ML25B	25mm small black	8 - 13mm	100
ML25R	25mm small red	8 - 13mm	100

- For securing and terminating cable into a source
- Zero halogen nylon for use on unarmoured cables type A
- Available in kit form, individual glands or locknuts
- Available in white, black or red

# Earth clamps and pipe accessories

## Earth clamps



Product code	Description	Cable diameter	Pack quantity
3000952	ECL15 150mm strap length wet or dry use	12-32mm	20
3000956	ECL14 150mm strap length wet use	12-32mm	20
3000959	EC16 150mm strap length wet use	12-32mm	20
3000965	EC14/2 200mm strap length dry use	32-50mm	20
3000969	EC15/2 200mm strap length wet or dry use	32-50mm	20
3000971	EC15/3 300mm strap length wet or dry use	50-75mm	20
21RCK10	Ezyerth standard clamp kit (for radiators)	n/a	10

- Available to suit wet or dry conditions and a range of pipe diameters
- Designed to comply with BS951
- Manufactured with a brass or phosphor bronze body with phosphor bronze strap



# Cable reels and extension leads

# Cable reels and extension leads

Schneider Electric offers a wide range of cable reels applicable with various applications for indoor and outdoor uses with all products featuring a safety cut out in accordance with BS EN 61242.



# Cable reels and extension leads

## Cable reels



Product code	Description	Pack quantity
Thorsman cable reels		
4510080	10m 13A 240V 4 socket cassette	1
4510090	10m 10A 240V 2 socket cassette	6
4510092	25m 13A 240V 2 socket open	1
4510094	40m 13A 240V 2 socket open	1
4510096	50m 13A 240V 2 socket open	1
4510093	25m 16A 110V 2 socket open	1
4510095	40m 16A 110V 2 socket open	1
Jojo cable reels		
JJR22516	25m 16A 110V 2 socket open	1
JJR42513	25m 13A 240V 4 socket open	1
JJR45013	50m 13A 240V 4 socket open	1
JJR43013RCD	30m 13A 240V 4 socket with RCD plug open	1
JJR4513	5m 13A 240V 4 socket cassette	1
JJR41010	10m 10A 240V 4 socket cassette	1
JJR41013	10m 13A 240V 4 socket cassette	1
JJR41510	15m 10A 240V 4 socket cassette	6
Trailing leads		
4502105	14m 16A lead set 110V 1.5mm <sup>2</sup>	1
4503107	14m 16A lead set 110V 2.5mm <sup>2</sup>	1

- Jojo and Thorsman cable reels are manufactured to the highest quality standards
- Both cassette and open type cable reels, with a variety of cable lengths available to suit a range of applications
- Features a safety cut out in accordance with BS EN 61242
- All cable reels are BSI kitemarked, CE marked and conform to BS1363
- Trailing leads ideal for supporting lighting or power tool use on site, in conjunction with transformers and splitters.
- Leads incorporate a 3 pin 16A plug.



# Extension leads, RCDs and timer

## Extension leads



Product code	Description	Pack quantity
JJL15W	5m 13A 1 socket	1
JJL210W	10m 13A 2 socket	1
JJL41W	1m 13A 4 socket	1
JJL42W	2m 13A 4 socket	1
JJL43W	3m 13A 4 socket	1
JJL45W	5m 13A 4 socket	1
JJL45WHDC	5m 13A 4 socket heavy duty with switch and neon	1
JJL45WHDC4	5m 13A 4 socket heavy duty individually switched with neon	1
JJL42WSSC	2m 13A 4 socket with surge protection and two neons	1
JJL62WSSC	2m 13A 6 socket with surge protection and two neons	1
JJL62WHDC	2m 13A 6 socket heavy duty individually switched with neon	1

- Jojo extension leads are manufactured to the highest quality standards
- A wide range of features and cable lengths available
- Supplied with 1.25mm<sup>2</sup> core PVC cable and are 13A rated
- All extension leads are CE marked and conform to BS1363

## Unwired extension leads



Product code	Description	Pack quantity
400286	8 socket 13A ultraslim switched white	1
400460	2 socket 13A white	1

- Jojo unwired extension leads are manufactured to the highest quality standards
- A wide range of features available
- All unwired extension leads are CE marked and conform to BS1363





# Fixings

# Fixings guide

	Application		
	Cable ladders, cable trays and mesh trays	Poles and posts perimeter	Mini trunking
Wall plugs p1/10	● 1	● 1	● 1
Metal and nylon cavity fixings - TPD p4/32	■	■	●
Through bolts p4/43	● 1	■	■
Twin thread wood screws p4/31	■	■	● 1
Chipboard screws p4/33 - p4/34	■	■	● 1
Stainless steel wood screws p4/35	■	■	● 1
Combi roundhead screws p4/35	■	● 1	■
Machine screws p4/32	■	■	● 1
Roofing nuts and bolts p4/32	●	■	■
Drywall screws p4/40	■	■	● 1
Steel to steel self drilling screws p4/41	●	■	■
Gash point screws p4/42	■	■	■
Masonry nails p4/39	■	■	■
Fixing band p1/13	■	■	■
Cable clips p1/6 - p1/9	■	■	■

	Material		
	Concrete stone/rock	Hollow bricks and building blocks	Plaster board
Wall plugs p1/10	● 1	● 1	● 1
Metal and nylon cavity fixings - TPD p4/32	■	■	●
Through bolts p4/43	●	■	■
Twin thread wood screws p4/31	● 2	● 1	● 2
Chipboard screws p4/33 - p4/34	● 2	● 2	● 2
Stainless steel wood screws p4/35	● 2	● 2	● 2
Combi roundhead screws p4/35	● 2	● 2	● 2
Machine screws p4/32	● 2	● 2	● 2
Roofing nuts and bolts p4/32	●	●	■
Drywall screws p4/40	■	■	●
Steel to steel self drilling screws p4/41	■	■	●
Gash point screws p4/42	■	■	■
Masonry nails p4/39	●	●	■
Fixing band p1/13	Dependant on fixing	Dependant on fixing	Dependant on fixing
Cable clips p1/6 - p1/9	■	■	●

## Key

● = Suitable

■ = Not suitable

1 = Together with screws and/or plugs etc

2 = Together with plug

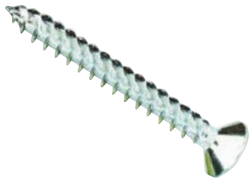
3 = Together with clip plug TCP

Perimeter trunking and cable distribution trunking	Installation boxes	Cables and conduits	Wiring accessories
● 1	● 1	■	● 1
●	■	■	●
■	■	■	●
● 1	● 2	■	● 2
● 1	● 2	■	● 2
● 2	● 2	■	● 2
■	● 2	■	● 2
● 2	● 2	■	● 2
■	■	■	■
● 1	■	■	■
■	■	■	● 2
■	■	■	● 2
■	■	■	● 2
■	■	■	● 2
■	■	●	● 2

Wooden board	Sheet metal	Wood	Plastic
● 1	■	■	● 1
■	■	■	●
■	■	■	●
● 2	■	● 2	● 2
● 2	■	● 2	● 2
● 2	■	● 2	● 2
● 2	■	● 2	● 2
● 2	■	● 2	● 2
●	●	●	■
●	●	●	■
●	●	●	● 2
●	●	●	● 2
■	■	■	● 2
Dependant on fixing	Dependant on fixing	Dependant on fixing	Dependant on fixing
●	■	●	● 2

# Fixings

## Twin thread wood screws



Product code	Description	Pack quantity
Bright zinc plated		
3736025	4 x 1/2"	200
3736032	4 x 5/8"	200
3736049	4 x 3/4"	200
3736056	4 x 1"	200
3736070	5 x 1/2"	200
3736087	5 x 5/8"	200
3736117	6 x 1/2"	200
3736124	6 x 5/8"	200
3719172	6 x 3/4"	200
3719196	6 x 1"	200
3719219	6 x 1 1/4"	200
3719226	6 x 1 1/2"	200
3736179	6 x 1 3/4"	200
3719240	6 x 2"	200
3736209	7 x 3/4"	200
3719301	7 x 1"	200
3719318	7 x 1 1/4"	200
3719325	7 x 1 1/2"	200
3719349	8 x 1/2"	200
3736278	8 x 5/8"	200
3719363	8 x 3/4"	200
3719387	8 x 1"	200
3719400	8 x 1 1/4"	200
3719417	8 x 1 1/2"	200
3719424	8 x 1 3/4"	200
3719431	8 x 2"	200
3736353	8 x 2 1/4"	200
3719455	8 x 2 1/2"	200
3736377	8 x 3"	200
3736391	10 x 3/4"	200
3719509	10 x 1"	200
3719516	10 x 1 1/4"	200
3719523	10 x 1 1/2"	200
3719530	10 x 1 3/4"	200
3719547	10 x 2"	200
3719554	10 x 2 1/4"	200
3719561	10 x 2 1/2"	100
3719585	10 x 3"	100
3736476	10 x 3 1/2"	100
3736483	10 x 4"	200
3736485	12 x 1"	200
3736506	12 x 1 1/4"	200
3736513	12 x 1 1/2"	200
3736520	12 x 2"	100
3736537	12 x 2 1/2"	100
3736544	12 x 3"	100
3736551	12 x 3 1/2"	100
3736568	12 x 4"	100

- Suitable for wood, plastic and nylon wall plugs
- Pozidrive countersunk head
- Through hardened and zinc plated finish

## Fixings

### Brass pan head machine screws



Product code	Description	Pack quantity
3747113	M4 x 6mm	100
3747120	M4 x 8mm	100
3747137	M4 x 10mm	100
3747144	M4 x 12mm	100
3747151	M4 x 16mm	100
3747168	M4 x 20mm	100
3747175	M4 x 25mm	100
3747182	M4 x 30mm	100
3747199	M4 x 35mm	100
3747205	M4 x 40mm	100
3747212	M4 x 50mm	50
3747717	M4 Brass fullnuts	100
3747755	M4 Brass washers	100

- Suitable for many electrical installations
- Manufactured from solid brass material

### Raised head machine screws



Product code	Description	Pack quantity
3746130	M3.5 x 25mm	100
3746154	M3.5 x 35mm	100
3746161	M3.5 x 40mm	100
3746178	M3.5 x 50mm	100
3746192	M3.5 x 75mm	50
3747758	M3.5 x 35mm extension stud	100

- Suitable for socket boxes, switches etc
- BZP finish

### Cavity fixings - TPD™



Product code	Description	Pack quantity
1220104	TPD™ metal	100
1220010	TPD™ nylon	100

- Ideal for light installations in plasterboard
- Supplied complete with screw
- Self-drilling design for easy installation

### Roofing nuts and bolts



Product code	Description	Pack quantity
3750050	M6 x 12mm	200
3750060	M6 x 16mm	200
3750070	M6 x 20mm	200
3750080	M6 x 25mm	200
3750090	M6 x 30mm	200
3750100	M6 x 40mm	100
3750110	M6 x 50mm	100

- Suitable for many electrical installations
- Double slotted head with square nut
- BZP finish

### Penny washers



Product code	Description	Pack quantity
3750056	M6 x 25mm steel zinc plated penny washer	100
3750057	M8 x 25mm steel zinc plated penny washer	100
3750058	M10 x 25mm steel zinc plated penny washer	100

- BZP finish

# Fixings

## Chipboard screws



Product code	Metric gauge & length	Imperial gauge & length	Pack quantity
Yellow passivated			
3742026	3 x 13mm	4 x 1/2"	200
3742033	3 x 15mm	4 x 5/8"	200
3742037	3 x 17mm	4 x 11/16"	200
3742040	3 x 20mm	4 x 3/4"	200
3742057	3 x 25mm	4 x 1"	200
3742064	3 x 30mm	4 x 1 1/4"	200
3742088	3.5 x 13mm	6 x 1/2"	200
3742095	3.5 x 15mm	6 x 5/8"	200
3742098	3.5 x 17mm	6 x 11/16"	200
3742101	3.5 x 20mm	6 x 3/4"	200
3742118	3.5 x 25mm	6 x 1"	200
3742125	3.5 x 30mm	6 x 1 1/4"	200
3742127	3.5 x 35mm	6 x 1 3/8"	200
3742132	3.5 x 40mm	6 x 1 1/2"	200
3742170	4 x 15mm	8 x 3/4"	200
3742171	4 x 17mm	8 x 11/16"	200
3742187	4 x 20mm	8 x 3/4"	200
3742194	4 x 25mm	8 x 1"	200
3742200	4 x 30mm	8 x 1 1/4"	200
3742209	4 x 35mm	8 x 1 3/8"	200
3742217	4 x 40mm	8 x 1 1/2"	200
3742224	4 x 45mm	8 x 1 3/4"	200
3742231	4 x 50mm	8 x 2"	200
3742240	4 x 60mm	8 x 2 1/2"	200
3742247	4 x 70mm	8 x 2 3/4"	200
3742255	4.5 x 20mm	9 x 3/4"	200
3742262	4.5 x 25mm	9 x 1"	200
3742279	4.5 x 30mm	9 x 1 1/4"	200
3742280	4.5 x 35mm	9 x 1 3/8"	200
3742286	4.5 x 40mm	9 x 1 1/2"	200
3742293	4.5 x 45mm	9 x 1 3/4"	200
3742309	4.5 x 50mm	9 x 2"	200
3742323	5 x 20mm	10 x 3/4"	200
3742330	5 x 25mm	10 x 1"	200
3742347	5 x 30mm	10 x 1 1/4"	200
3742351	5 x 35mm	10 x 1 3/8"	200
3742354	5 x 40mm	10 x 1 1/2"	200
3742361	5 x 45mm	10 x 1 3/4"	200
3742378	5 x 50mm	10 x 2"	200
3742381	5 x 55mm	10 x 2 3/8"	200
3742385	5 x 60mm	10 x 2 1/2"	100
3742392	5 x 70mm	10 x 2 3/4"	100
3742408	5 x 75mm	10 x 3"	100
3742422	5 x 100mm	10 x 4"	100
3742446	6 x 30mm	12 x 1 1/4"	200
3742453	6 x 40mm	12 x 1 1/2"	200
3742484	6 x 60mm	12 x 2 1/2"	100
3742507	6 x 80mm	12 x 3 1/2"	100
3742521	6 x 100mm	12 x 4"	100

- Through hardened with yellow passivated or BZP finish
- Single thread design provides excellent holding in a variety of materials
- Wax coated to ease penetration
- All imperial equivalents are approximate



# Fixings

## Chipboard screws



Product code	Metric gauge & length	Imperial gauge & length	Pack quantity
BZP electro-plated			
3740040	3 x 20mm	4 x 3/4"	200
3740088	3.5 x 13mm	6 x 1/2"	200
3740101	3.5 x 20mm	6 x 3/4"	200
3740118	3.5 x 25mm	6 x 1"	200
3740125	3.5 x 30mm	6 x 1 1/4"	200
3740132	3.5 x 40mm	6 x 1 1/2"	200
3740179	4 x 15mm	8 x 5/8"	200
3740194	4 x 25mm	8 x 1"	200
3740145	5 x 30mm	10 x 1 1/4"	200
3740146	5 x 40mm	10 x 1 1/2"	200

- Through hardened with yellow passivated or BZP finish
- Single thread design provides excellent holding in a variety of materials
- Wax coated to ease penetration
- All imperial equivalents are approximate

## Roundhead wood screws



Product code	Description	Pack quantity
3737507	8 x 1"	200
3737506	8 x 1 1/4"	200
3737505	8 x 1 1/2"	200
3737508	8 x 2"	200

- Suitable for wood, plastic and nylon wall plugs
- Through hardened and zinc plated finish
- Sharp gimlet point

## Stainless steel wood screws



Product code	Description	Pack quantity
3743800	4 x 25mm	200
3743802	4 x 30mm	200
3743804	4 x 40mm	200
3743806	4 x 50mm	200
3743808	4 x 60mm	200
3743810	4 x 70mm	200
3743820	5 x 25mm	200
3743822	5 x 30mm	200
3743824	5 x 40mm	200
3743826	5 x 50mm	200
3743828	5 x 60mm	100
3743836	5 x 100mm	100
3743840	6 x 40mm	200
3743844	6 x 60mm	100
3743846	6 x 70mm	100
3743848	6 x 80mm	100
3743852	6 x 100mm	100

- Solid A302 (A2) stainless steel
- Single thread design
- Pozi drive
- Countersunk head
- High resistance to corrosion

## Fixings

### Combi roundhead screws



Product code	Description	Pack quantity
3743184	3 x 20mm	200
3743368	3.5 x 13mm	200
3743180	3.5 x 15mm	200
3743193	3.5 x 25mm	200
3743195	3.5 x 40mm	200
3743187	4 x 13mm	200
3743188	4 x 15mm	200
3743190	4 x 20mm	200
3743191	4 x 25mm	200
3743207	4 x 30mm	200
3743215	4 x 40mm	200
3743220	4 x 50mm	200
3743222	5 x 20mm	200
3743337	5 x 25mm	200
3743344	5 x 30mm	200
3743351	5 x 40mm	200
3743360	5 x 50mm	200
3743365	5 x 60mm	100
3743366	5 x 70mm	100
3743367	5 x 75mm	100

- Available with a BZP finish on hardened steel
- Combination head can be used with slotted or pozid screwdriver
- Single thread provides excellent grip in many materials

## Brass wood screws



Product code	Description	Pack quantity
Recessed		
3739026	4 x 1/2"	200
3739033	5/8"	200
3739057	4 x 1"	200
3739125	6 x 3/4"	200
3739132	6 x 1"	200
3739149	6 x 1 1/4"	200
3739156	6 x 1 1/2"	200
3739194	7 x 1"	200
3739255	8 x 3/4"	200
3739262	8 x 1"	200
3739279	8 x 1 1/4"	200
3739286	8 x 1 1/2"	200
3739354	10 x 1"	200
3739361	10 x 1 1/4"	200
3739378	10 x 1 1/2"	200
3739392	10 x 2"	200
3739415	10 x 2 1/2"	100
3739422	10 x 3"	100

- Available with slotted or recessed heads
- Manufactured from non-corrosive solid brass with sharp gimlet point
- Suitable for wood, plastic and nylon plugs

# Fixings

## Masonry nails



Product code	Description	Pack quantity
Light gauge 2.5mm diameter		
3790000	25mm	100
3790002	30mm	100
3790004	35mm	100
3790006	40mm	100
3790093	45mm	100
3790010	50mm	100
3790014	60mm	100
Medium gauge 3mm diameter		
3790030	25mm	100
3790032	30mm	100
3790034	35mm	100
3790036	40mm	100
3790038	45mm	100
3790040	50mm	100
3790044	60mm	100
3790046	65mm	100
3790048	70mm	100
3790050	75mm	100
3790094	80mm	100
Heavy gauge 3.5mm diameter		
3790064	35mm	100
3790070	50mm	100
3790074	60mm	100
3790091	65mm	100
3790092	75mm	100
Capping nails		
3790204	2.5 x 25mm	100
3790207	2.5 x 30mm	100
3790208	2.5 x 35mm	100
Dome head nails		
3743865	2.5 x 18mm	250

- Suitable for fixing into brick, block and concrete
- C1075 grade steel, through hardened to 50 - 54 HRC and bright zinc plated
- Available in light, medium and heavy gauge
- Zinc plated finish



## Masonry screws

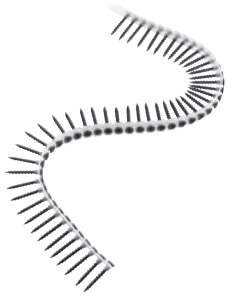


Product code	Description	Pack quantity
Countersunk phillips head		
3703210	4.8 x 32mm	100
3703215	4.8 x 45mm	100
3703220	4.8 x 57mm	100
3703225	4.8 x 70mm	100
3703230	4.8 x 82mm	100
3703260	6.3 x 57mm	100
3703265	6.3 x 70mm	100

- Suitable for rapid anchoring directly into most masonry materials
- Available in countersunk or hexagon heads
- No wall plug required

# Fixings

## Collated drywall screws



Product code	Description	Pack quantity
Grey phosphate		
3746770	3.5 x 25mm fine	1,000
3746783	3.9 x 45mm coarse	1,000
3746156	3.9 x 50mm coarse	1,000
3746786	3.9 x 55mm coarse	1,000
Zinc plated		
3746900	3.5 x 25mm fine	1,000
3746906	3.9 x 35mm coarse	1,000
3746908	3.9 x 41mm coarse	1,000

- Bugle head with phillips recess
- Fits popular makes of collated screw gun
- Thread: coarse - timber fine - steel
- CE marked

## Steel to steel self drilling screws



Product code	Description	Pack quantity
Light section 16mm bonded washer - maximum thickness 3.5mm		
3752260	5.5 x 25mm 3pt	100
3752265	5.5 x 32mm 3pt	100
3752270	5.5 x 38mm 3pt	100
3752275	5.5 x 50mm 3pt	100
Light section 19mm bonded washer - maximum thickness 3.5mm		
3752266	5.5 x 32mm 3pt	100
3752271	5.5 x 38mm 3pt	100
Heavy section 16mm bonded washer - maximum thickness 12.5mm		
3752210	5.5 x 22mm 4pt	100
3752215	5.5 x 32mm 5pt	100
3752220	5.5 x 40mm 5pt	100
3752235	5.5 x 100mm 5pt	100

- Hexagon washer headed self drilling screws
- Drills and fastens in one operation
- 5/16" hexagonal head (magnetic socket available p4/24)
- Available with 16 and 19mm EDPM bonded washers
- 3mm thick bonding reduces the likelihood of leaks
- High thread screws provide a secure fix through insulation
- CE marked

## Washerless steel to steel screws



Product code	Description	Pack quantity
Light section - 3.5mm maximum thickness		
3752290	5.5 x 25mm 3pt	100
3752292	5.5 x 32mm 3pt	100
3752294	5.5 x 38mm 3pt	100
3752296	5.5 x 50mm 3pt	100
Heavy section - 12.5mm maximum thickness		
3752250	5.5 x 22mm 4pt	100
3752252	5.5 x 32mm 5pt	100
3752254	5.5 x 40mm 5pt	100

- CE marked

## Fixings

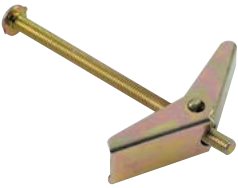
### Duo max - TSP



Product code	Description	Pack quantity
1240001	6 x 50mm	25
1248004	10 x 65mm	25
1249002	10 x 75mm	25

- Suitable for a range of plasterboard thicknesses
- A captive fixing - even without screw
- Corrosion resistant
- High load values

## Spring toggles - TOG



Product code	Description	Pack quantity
1208016	10 M3 x 50mm	50
1208057	15 M5 x 50mm	50
1208060	15L M5 x 80mm	50

- Ideal for overhead cavity fixing
- Spreads loads over a wide area
- Easy installation



# Test Instruments



# Test Instruments

A complete suite of test meters that offer quality, ergonomic and robust products:

safe and easy to operate measuring and testing tools, supplying clear and accurate readings of current, resistance, temperature, moisture, etc. covering all the needs from at home & on site.



## Digital multimeter - category III - 300 V




### Description

- Digital multimeter equipped with a backlit screen and a data hold function
- DC voltage range: 0.2/2/20/200/300 V
- AC voltage range: 0.2/2/20/200/300 V
- DC/AC current: 20 mA/200 mA/10 A
- Resistance: 200 Ω/2 kΩ/20 kΩ/200 kΩ/2 MΩ/20 MΩ
- Continuity: yes, under 100 Ω
- Temperature: 0...1000°C
- Battery test: yes, 1.5 V (AA, AAA and button cell) 9 V and 12 V
- Electrical insulation: IEC 61010 Cat III, 300 V
- Fused by 250 mA and 10 A fast fuse
- Power: 9 V battery
- Weight: approx. 290 g (with battery).

### Application

- A highly specified digital multimeter designed to measure voltage, current, resistance, diode, continuity, battery power and temperature.

Range			
	Type (Language of packaging and instructions)	Size mm (HxWxT)	Ref No.
	Digital multimeter (English, Danish, Finnish, Norwegian & Swedish)	165x85x39	IMT23102
	Digital multimeter (French, Spanish, German, Portuguese, Polish)	165x85x39	IMT23202

- Low battery indicator.
- Non-contact AC voltage detection.
- Live AC wire detection.
- Backlight and hold result mode.
- Built in stand allows handsfree operations.

## Multipurpose digital detector




### Description

- Detection depth
- Stud mode: wood stud of 30×30 mm at depth of y 14 mm
- Metal mode: iron pipe of Ø 20 mm at depth of y 25 mm
- AC mode: 50 mm for 90...250 V at 50...60 Hz
- Power: 9 V battery (6F22)
- Weight: approx. 213 g (with battery)
- Always calibrate before each use.

### Application

- This unit is an advanced detector. It can detect and locate metal, AC voltage and stud. It can be used in construction, fitment, etc.

Range			
	Type (Language of packaging and instructions)	Size mm (HxWxT)	Ref No.
	Multipurpose digital detector (English, Danish, Finnish, Norwegian & Swedish)	180x73x32	IMT23104

- LCD and sound signal indicate findings.
- 2 meter measure tape inside.
- Pencil slider, pencil hole.
- Whole alarm icon: when detects an edge of object, the icon appears as an indicator.
- Spotlight & groove: press when detects an object, the spotlight appears and mark in the groove position.
- Mark button: press this button to mark dots on the wall surface.



## 3-in-1 detector



### Description

- Detection depth
- Stud mode: wood stud of 30×30 mm at depth of y 18 mm
- Metal mode: iron pipe of Ø 25 mm at depth of y 30 mm
- AC mode: 50 mm for 90...250 V at 50...60 Hz
- Power: 9 V battery (6F22)
- Weight: approx. 165 g (with battery)
- Always calibrate before each use.

### Application

- This unit is an advanced detector. It can be used in construction, fitment, carpentry, etc.

Range			
Type (Language of packaging and instructions)	Size mm (HxWxT)	Ref No.	
3 in 1 detector (English, Danish, Finnish, Norwegian & Swedish)	150x66x32	IMT23105	<ul style="list-style-type: none"> <li>• Find the stud centre, find wood and metal studs, AC scanning to trace hot wire.</li> <li>• Metal scanning for finding nail, pipe, rebar, and other hidden metallic objects.</li> <li>• Signal indication: when detects an edge of object, the top signal LED lights as an indicator.</li> <li>• Spotlight &amp; groove: when detects an object, the spotlight appears and mark in the groove position.</li> </ul>

## Multifunction cable tracer



### Description

- The transmitter is a compact hand-held instrument used for electricians to detect and track circuits into wall. Very useful when you need to repair an old electrical circuit
- Must be used when electrical circuits are switched off
- Unenergized electrical wires
- Slim ergonomic receiver receptor
- Telephone lines
- Coaxial cables
- Two crocodile clips
- DC automotive wires
- Power: 1.5 V (LR41/SR41) x4 (R)
- Power: 1.5 V (AAA) x2 (T)
- Weight: approx. 220 g (with battery).

### Application

- Designed to generate a distinct tone in any unenergized wire or cable. This tone can be picked up with the tracker receiver. An LED acts as a visual indicator to show that the unit is on.

Range			
Type (Language of packaging and instructions)	Size mm (HxWxT)	Ref No.	
Multifunction cable tracer (English, Danish, Finnish, Norwegian & Swedish)	183x80x46	IMT23106	<ul style="list-style-type: none"> <li>• A multifunction device comprising of a transmitter and remote receiver.</li> <li>• Audible Tracking.</li> </ul>

## Infrared thermometer



### Description

- Hand-held digital infrared thermometer for surface temperature measurement.
- Backlight LCD
- Laser pointer
- Temperature range: -20...520°C (-4...968°F)
- Power: 9 V battery
- Weight: approx. 150 g (without battery).

### Application

- A variety of non-contact thermo measurement application, including:
  - Automotive
  - BBQ's
  - Radiator electrical installations
  - Cable wires.

Range			
Type (Language of packaging and instructions)	Size mm (HxWxT)	Ref. No.	
Infrared thermometer with LCD readout display (English, Danish, Finnish, Norwegian & Swedish)	180x85x50	IMT23107	<ul style="list-style-type: none"> <li>• Infrared laser measurement.</li> <li>• LCD readout display.</li> <li>• Complete with hand lanyard and batteries.</li> </ul>



## Moisture meter



### Description

- It can measure moisture level and the ambient temperature. Drive the probes into the wood, wall or material to be measured.
- LED indication.
- Digital LCD display with backlight
- Range of wood: 6...60 %
- Range of building material: 0.2...2.9 %
- Environment temperature: 0...40°C (32...99°F)
- Power: 1.5 V battery, LR44 or equivalent, 4 pieces
- Weight: approx. 41 g (with batteries).

### Application

- It can be used to measure the moisture level in sawn timber (also cardboard, paper) and hardened materials (plaster, concrete and mortar). It displays the moisture level in the material straightaway. In addition, it can measure the ambient temperature.

Range			
Type (Language of packaging and instructions)	Size mm (HxWxT)	Ref. No.	
Moisture meter (English, Danish, Finnish, Norwegian & Swedish)	85x45x16	IMT23108	<ul style="list-style-type: none"> <li>• Compact size, portable.</li> <li>• Fast operation.</li> <li>• Accuracy.</li> <li>• Easy one-touch operation.</li> <li>• °C/°F unit exchange.</li> <li>• 2 pin steel probe.</li> <li>• Low battery indication.</li> <li>• Automatic power-off feature.</li> </ul>



## Voltage detector pen




### Description

- A compact voltage testing device with both audible and visual (bright LED) indication if voltage is present in the circuit
- AC voltage range: 5...1000 V
- Frequency range: 50...400 Hz
- Electrical Insulation: Cat IV, 1000 V
- Illumination function included - can double as a torch
- Adjustable detection sensitivity
- Power: 1.5 V AAA battery, 2 pieces
- Weight: approx. 50 g (with batteries).

### Application

- In just a few seconds, a technician can determine if it's safe to work around areas like:
  - Transformer cases and circuit breaker housings, power ground wires or newly driven ground rods, mobile homes, metallic siding or metal framing pedestals, crossboxes or conduit, street light fixtures or electrical machinery.

Range			
	Type (Language of packaging and instructions)	Size mm (HxWxT)	Ref No.
	Voltage tester pen (English, Danish, Finnish, Norwegian & Swedish)	152x32x28	IMT23109

- Audible and visual confirmation: LED illumination offers peace of mind in a noisy environment.
- Ergonomic hand-held design.
- Bright torch function.
- Low battery indication.
- Tactile barrier for safety.

## Compact multimeter - category III




### Description

- Digital multimeter provides excellent reading of the basic electrical measurements
- DC voltage range: 2/20/200/300 V
- AC voltage range: 2/20/200/300 V
- DC current: 200 mA
- Resistance range: 2 k $\Omega$ /20 k $\Omega$ /200 k $\Omega$ /2 M $\Omega$
- Continuity: yes under 50  $\Omega$
- Battery test: none
- Electrical insulation: Cat III, 300 V
- Fused by 250 mA fuse
- Power: 12 V battery included
- Weight: approx. 110 g (with battery).

### Application

- A pocket sized digital multimeter to measure voltage, current and resistance.

Range			
	Type (Language of packaging and instructions)	Size mm (HxWxT)	Ref No.
	Compact digital multimeter (English, Danish, Finnish, Norwegian & Swedish)	120x75x18	IMT23112

- Low battery indicator
- Integral test leads
- Ergonomic design: can be used hands free.

## Analogue multimeter - category III



### Description

- Traditional analogue meter using a needle gauge
- DC voltage range: 12/60/120/300 V
- AC voltage range: 12/60/300 V
- DC current: 0.6/12/600 mA
- Resistance: x10 Ω/x1 kΩ
- Decibel: -20...23 dB
- Continuity: yes, under 20 Ω
- Battery test: yes, 1.5 V (AA, AAA and button cell) and 9 V
- Electrical insulation: Cat III, 300 V
- Fused by 500 mA fuse
- Power: 1.5 V AA battery
- Weight: approx. 275 g (without battery).

### Application

- A traditional analogue multimeter using a needle gauge to measure Voltage, Current and Resistance. Able to work into high humid zone < 85 %.

Range			
Type (Language of packaging and instructions)	Size mm (HxWxT)	Ref No.	
Analogue multimeter (English, Danish, Finnish, Norwegian & Swedish)	140x75x50	IMT23113	<ul style="list-style-type: none"> <li>• Quick view.</li> <li>• Safe in high humidity area.</li> <li>• Able to use with hands free.</li> </ul>

## Digital clamp meter - category III - 600 V



### Description

- A compact 3½ digit autorange digital clamp meter designed to measure DC and AC voltage, AC current, resistance, diode and continuity
- DC voltage range: 0.2/2/20/200/600 V
- AC voltage range: 2/20/200/600 V
- AC current: 2/20/200/600 A
- Resistance: 200 Ω/2 kΩ/20 kΩ/200 kΩ/2 MΩ/20 MΩ
- Continuity: yes, under 30 Ω
- Diode check: approx. 1.5V
- Electrical insulation: IEC 61010 Cat III, 600 V
- Power: 3 V button cells, 2 pieces
- Weight: approx. 160 g (with battery).

### Application

- For commercial, industrial and residential troubleshooting. Power panel, junction box and battery bank monitoring, AC/DC motor testing, electrical testing on nonlinear loads, etc.

Range			
Type (Language of packaging and instructions)	Size mm (HxWxT)	Ref No.	
Digital clamp meter (English, Danish, Finnish, Norwegian & Swedish)	190x76x36	IMT23114	<ul style="list-style-type: none"> <li>• Compact and easy to use.</li> <li>• Data hold function.</li> <li>• Audible continuity.</li> <li>• Low battery indicator.</li> <li>• High precision measuring.</li> <li>• Tactile barrier for safety.</li> </ul>

## British standard socket tester




### Description

- It is equipped with an additional RCD tester for testing the operation of RCD whose rating is not more than 30 mA
- In conjunction with the coding table provided, combined indicators indicate the true status of the wiring condition
- A clear indication of a PE-error will be shown on the LCD if dangerous contact voltage is present at PE (ground)
- Nominal voltage: 220 V ±10 %
- Frequency range: 50...60 Hz
- Measurement category: Cat III, 300 V
- RCD-test time: 60...300 ms
- Contact voltage threshold: (< 35 V AC against ground depending on coupling to earth)
- RCD test current: 30 mA ±15 %
- Weight: approx. 70 g.

### Application

- This socket tester can be used to determine whether socket wiring is correct or incorrect.

Range			
	Type (Language of packaging and instructions)	Size mm (HxWxT)	Ref No.
	BS socket tester British plug	77x67x66	IMT23103

- Provides a true ground error indication through the LCD
- Quick recognition of dangerous voltage being present at the protective earth
- Use of three neon indicators provides rapid detection of correct / incorrect wiring
- Provides fast and effective RCD test function



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1001007	14	2420115	15	3719530	30	3742132	32	3746130	31
1003003	14	2420116	15	3719547	30	3742170	32	3746154	31
1005008	14	2420117	15	3719554	30	3742171	32	3746156	36
1090600	14	2420118	15	3719561	30	3742187	32	3746161	31
1090605	14	2420300	15	3719585	30	3742194	32	3746178	31
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2011017	7	3000270	17	3736520	30	3742361	32	3747755	31
2011021	7	3000288	17	3736537	30	3742378	32	3747758	31
2022009	7	3000296	17	3736544	30	3742381	32	3750050	31
2022010	7	3000410	17	3736551	30	3742385	32	3750056	31
2022029	7	3000420	17	3736568	30	3742392	32	3750057	31
2032011	7	3000430	17	3737505	33	3742408	32	3750058	31
2032041	7	3000440	17	3737506	33	3742422	32	3750060	31
2032061	7	3000938	17	3737507	33	3742446	32	3750070	31
2032091	7	3000952	21	3737508	33	3742453	32	3750080	31
2041200	7	3000956	21	3739026	34	3742484	32	3750090	31
2041259	7	3000959	21	3739033	34	3742507	32	3750100	31
2042011	7	3000965	21	3739057	34	3742521	32	3750110	31
2042021	7	3000969	21	3739125	34	3743180	34	3752210	36
2042041	7	3000971	21	3739132	34	3743184	34	3752215	36
2052011	7	3280010	12	3739149	34	3743187	34	3752220	36
2052051	7	3280015	12	3739156	34	3743188	34	3752235	36
2060002	7	3280020	12	3739194	34	3743190	34	3752250	36
2060135	7	3280035	12	3739255	34	3743191	34	3752252	36
2070134	7	3280210	12	3739262	34	3743193	34	3752254	36
2070209	7	3280215	12	3739279	34	3743195	34	3752260	36
2101004	7	3280220	12	3739286	34	3743207	34	3752265	36
2106003	7	3280225	12	3739354	34	3743215	34	3752266	36
2111003	7	3703210	12	3739361	34	3743220	34	3752270	36
2116010	7	3703210	35	3739378	34	3743222	34	3752271	36
2116028	7	3703215	12	3739392	34	3743337	34	3752275	36
2126019	7	3703215	35	3739415	34	3743344	34	3752290	36
2126027	7	3703220	35	3739422	34	3743351	34	3752292	36
2131019	7	3703225	35	3740040	33	3743360	34	3752294	36
2131027	7	3703230	35	3740088	33	3743365	34	3752296	36
2136018	7	3703260	35	3740101	33	3743366	34	3790000	35
2136026	7	3703265	35	3740118	33	3743367	34	3790002	35
2137014	7	3719172	30	3740125	33	3743368	34	3790004	35
2141026	7	3719196	30	3740132	33	3743800	33	3790006	35
2146025	7	3719219	30	3740145	33	3743802	33	3790010	35
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2420100	15	3719301	30	3740194	33	3743808	33	3790032	35
2420101	15	3719318	30	3742026	32	3743810	33	3790034	35
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2420103	15	3719349	30	3742037	32	3743822	33	3790038	35
2420104	15	3719363	30	3742040	32	3743824	33	3790040	35
2420105	15	3719387	30	3742057	32	3743826	33	3790044	35
2420106	15	3719400	30	3742064	32	3743828	33	3790046	35
2420107	15	3719417	30	3742088	32	3743836	33	3790048	35
2420108	15	3719424	30	3742095	32	3743840	33	3790050	35
2420110	15	3719431	30	3742098	32	3743844	33	3790064	35
2420111	15	3719455	30	3742101	32	3743846	33	3790070	35
2420112	15	3719509	30	3742118	32	3743848	33	3790074	35

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3790091	35	64LSF28R	13	64LSF43W	13	77CW19P	10	LCW50K	18
3790092	35	64LSF28R	13	65CT05B	8	77CW25P	10	LCW63K	18
3790093	35	64LSF28R	13	65SA04W	8	CHOCBOXTH	17	M101005	19
3790094	35	64LSF28W	13	65SA08W	8	IMT23102	40	M130806	19
3790204	35	64LSF28W	13	65SA12W	8	IMT23103	45	M151107	19
3790207	35	64LSF28W	13	70CBRC10	9	IMT23104	40	M181407	19
3790208	35	64LSF302R	13	70CBRC11	9	IMT23105	41	M241808	19
4502105	24	64LSF302R	13	70CBRC12	9	IMT23106	41	MBM15S	19
4503107	24	64LSF302R	13	70CBRC14	9	IMT23107	42	MBM20L	19
4510080	24	64LSF302R	13	70CBRC16	9	IMT23108	42	MBM20S	19
4510090	24	64LSF302R	13	70CBRC4	9	IMT23109	43	MBM25S	19
4510092	24	64LSF302R	13	70CBRC5	9	IMT23112	43	MBM32L	19
4510093	24	64LSF30R	13	70CBRC6	9	IMT23113	44	MBW20K	18
4510094	24	64LSF30R	13	70CBRC7	9	IMT23114	44	MBW20SK	18
4510095	24	64LSF30R	13	70CBRC8	9	IMT36179	12	MBW25K	18
4510096	24	64LSF30W	13	70CBRC9	9	IMT36180	12	MBW32K	18
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5320100	21	64LSF30W	13	70CGDKF15	9	IMT37303	12	MBW50K	18
5320210	21	64LSF32R	13	70CGDKF25	9	IMT37304	12	MBW63K	18
5322010	21	64LSF32R	13	70CGKF10	9	IMT37307	12	MCW20K	19
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5322180	21	64LSF32R	13	70CGKF40	9	IMT46033	16	MCW50K	19
5322465	21	64LSF32W	13	70CGKF60	9	IMT46064	16	MCW63K	19
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05TUB05	14	64LSF32W	13	70CWPT	9	IMT46101	16	ML16B	20
21RCK10	21	64LSF32W	13	70CWRC10	9	IMT46118	16	ML16W	20
2201000A	8	64LSF32W	13	70CWRC11	9	IMT46149	16	ML20B	20
2201001A	8	64LSF32W	13	70CWRC12	9	IMT46156	16	ML20R	20
2202000A	8	64LSF32W	13	70CWRC14	9	IMT46248	16	ML20W	20
2202005A	8	64LSF342R	13	70CWRC16	9	IMT46286	16	ML25B	20
2202011A	8	64LSF342R	13	70CWRC275	9	IMT46293	16	ML25R	20
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2203002A	8	64LSF342R	13	70CWRC4	9	IMT46919	16	MP10B	20
2203004A	8	64LSF342R	13	70CWRC5	9	IMT46968	16	MP16DB	20
2203005A	8	64LSF342R	13	70CWRC6	9	IMT46969	16	MP16DW	20
2205000A	8	64LSF342R	13	70CWRC7	9	IMT46970	16	MP16W	20
2205002A	8	64LSF342R	13	70CWRC8	9	IMT48000	14	MP202DB	20
2206000A	8	64LSF342R	13	70CWRC9	9	IMT48001	14	MP202DR	20
2206002A	8	64LSF342W	13	70CWSM	9	ISM99930	12	MP202DW	20
2210000A	8	64LSF342W	13	72CB05P	10	ISM99940	12	MP202R	20
2211000A	8	64LSF342W	13	72CB06P	10	ISM99950	12	MP20R	20
2212000A	8	64LSF342W	13	72CB07P	10	JLL15W	25	MP20W	20
2213000A	8	64LSF342W	13	72CBKF40	10	JLL210W	25	MP252W	20
2213001A	8	64LSF342W	13	72CBKF60	10	JLL41W	25	MP25B	20
2214000A	8	64LSF342W	13	72CT05P	10	JLL42W	25	MP25DB	20
2214001A	8	64LSF342W	13	72CT06P	10	JLL42WSSC	25	MP25DW	20
2215000A	8	64LSF342W	13	72CW05P	10	JLL43W	25	MP25R	20
2215001A	8	64LSF34R	13	72CW06P	10	JLL45W	25	MP25W	20
25EC365	15	64LSF34R	13	72CW07P	10	JLL45WHDC	25	MP32DB	20
27BN3	15	64LSF34R	13	77CB04P	10	JLL45WHDC4	25	MP32DW	20
27BN4	15	64LSF34W	13	77CB05P	10	JLL62WHDSC	25	MPL20B	20
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27GY3	15	64LSF37R	13	77CB12PAC	10	JJR41013	24		
27GY4	15	64LSF37R	13	77CB15PAC	10	JJR41510	24		
27GY5	15	64LSF37R	13	77CB19P	10	JJR42513	24		
27GY6	15	64LSF37R	13	77CB25P	10	JJR43013RCD	24		
3BW20K	18	64LSF37W	13	77CGPF10P	10	JJR45013	24		
3BW20SK	18	64LSF37W	13	77CGPF1P	10	JJR4513	24		
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3BW32K	18	64LSF37W	13	77CGPF4P	10	LBW20SK	18		
3BW40K	18	64LSF37W	13	77CR06P	10	LBW25K	18		
3BW50K	18	64LSF40R	13	77CR07P	10	LBW32K	18		
3BW63K	18	64LSF40R	13	77CR09P	10	LBW40K	18		
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64LSF272W	13	64LSF43W	13	77CW12PAC	10	LCW32K	18		
64LSF272W	13	64LSF43W	13	77CW15P	10	LCW40K	18		



# Notes

# Notes





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