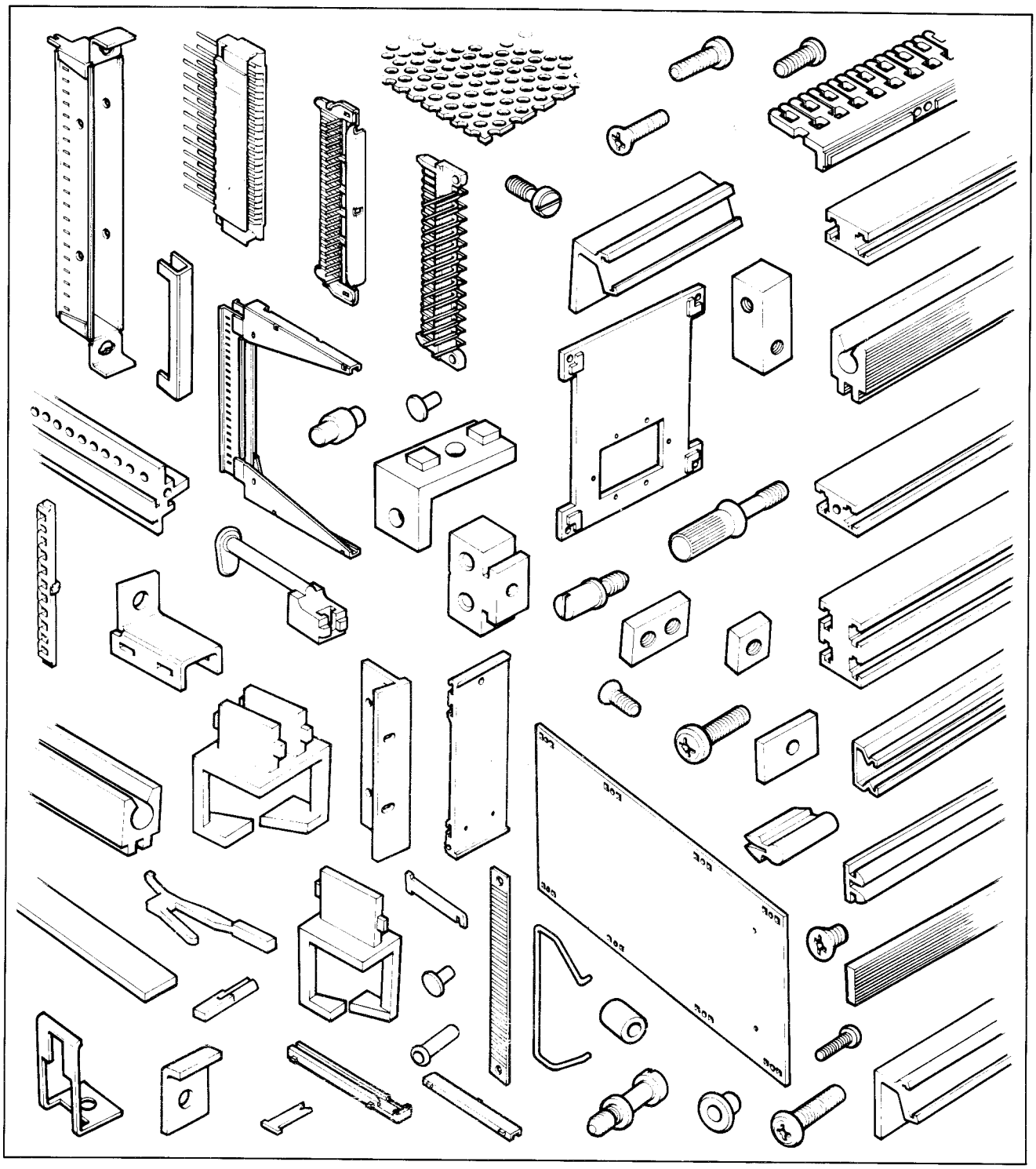
Components



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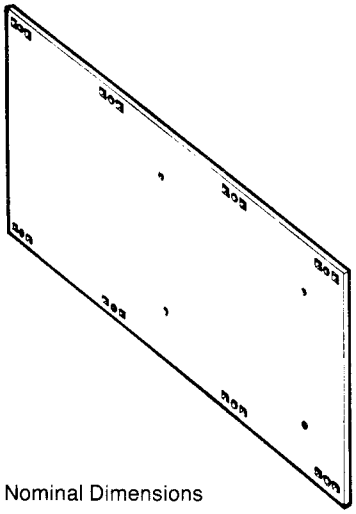
Sideplates. Front (T) and Centre Mounting for Subracks



Supplied as part of Sub Rack E-PAK

Aluminium plates, clean metal finish with peel-off protective plastic coating. Available in 5 heights and 3 depths. Side Plates accept Front (T) mountings, additional Centre Fixing Holes are provided. Alternative Rail Mounting positions are provided in the 10in (25mm) and 14in (355mm) nominal depths. Satin anodised finish and sizes outside this range available to special order.

Nominal Dimensions

Height	7in Depth (177mm)	Order Code	10in Depth (254mm)	Order Code	14in Depth (355mm)	Order Code
2 Unit 88.90mm	**TSR SP 207** *24-004-1241M*	07322F	**TSR SP 210** *24-004-1251M*	07327G	**TSR SP 214** *24-004-1361M*	07332B
3 Unit 133.35mm	**TSR SP 307** *24-004-1242M*	07323D	**TSR SP 310** *24-004-1252M*	07328E	**TSR SP 314** *24-004-1362M*	07333X
4 Unit 177.8mm	**TSR SP 407** *24-004-1243M*	07324B	**TSR SP 410** *24-004-1253M*	07329C	**TSR SP 414** *24-004-1363M*	07334R
5 Unit 222.25mm	**TSR SP 507** *24-004-1244M*	07325X	**TSR SP 510** *24-004-1254M*	07330F	**TSR SP 514** *24-004-1364M*	07335G
6 Unit 266.70mm	**TSR SP 607** *24-004-1245M*	07326R	**TSR SP 610** *24-004-1255M*	07331D	**TSR SP 614** *24-004-1365M*	07336E

Italics indicate obsolescent code numbers.

1 unit = 1¾in. (44.mm)

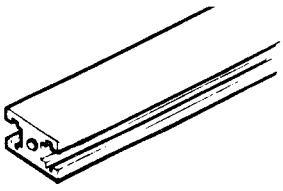
Front Mounting "T" Plates

Aluminium Mounting Brackets for attachment to Sideplates. Satin Anodised finish.

	Code	*Order Code*
(2 unit height)	**TSRFM2**	07400X
(3 unit height)	**TSRFM3**	00503R
(4 unit height)	**TSRFM4**	00504G
(5 unit height)	**TSRFM5**	00505E
(6 unit height)	**TSRFM6**	07401H

1 unit = 1¾in. (44.5)

Horizontal Rail



These Rails can be used in conjunction with the sideplates described previously. Finish "Satin anodised" with M 3.5 Rolled Thread.

Extension pack for Height and Depth splitting applications — E-PAK A46.

Code	*Order Code*
SR RL 169 (16.9in.)	00506C

Horizontal Rail

These Rails are supplied as part of standard ISEP Subrack E-PAK Kits and used in conjunction with the sideplates described previously. Finish "Satin anodised". Accepts self tapping screw.

Code	*Order Code*
SR RL 169	66284H

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Components

Front Panels Style 70 Panel Form

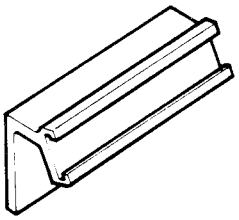
These Front Panels are supplied as part of Panel Form E-PAK in 5 width and 3 height increments based on Sub Rack sizes.

Satin Anodised finish, each panel will accept Handle and Clamp Fixing blocks.

Height	0.6in (15mm) Width	1.2in (30mm) Width	1.8in (45mm) Width	2.4in (60mm) Width	4.8in (121mm) Width
3 units 133.35mm	**70PFPN306**	**70PFPN312**	**70PFPN318**	**70PF324**	**70PFPN348**
Order Code	00467G	00468E	00469C	00470F	00471D
4 units 177.8mm	**70PFPN406**	**70PFPN412**	**70PFPN418**	**70PF424**	**70PFPN448**
Order Code	00472B	00473X	00474R	00475G	00476E
5 units 222.25	**70PFPN506**	**70PFPN512**	**70PFPN518**	**70PF524**	**70PFPN548**
Order Code	00477C	00478A	00479X	00480B	00481X

1 unit = 1¾in (44.5mm).

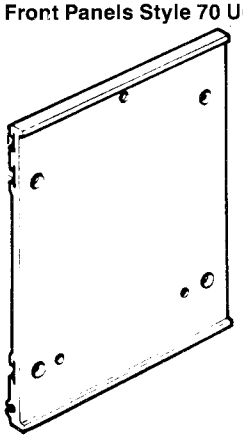
Handles for Style 70 Panel Form



Extruded aluminium section Satin Anodised finish. Supplied in 5 lengths compatible with ISEP Style 70 Front Panels.

Code	*Length*	*Order Code*
70PFHN06	0.6in (15mm)	00453H
70PFHN12	1.2in (30mm)	00454F
70PFHN18	1.8in (45mm)	00455D
70PFHN24	2.4in (60mm)	00456B
70PFHN48	4.8in (121mm)	00457X

Front Panels Style 70 Unit Form

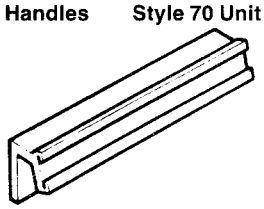


Height	4.2in (106mm) Width	5.6in (142mm) Width	8.4om (213mm) Width
3 units 133.35mm	**70UFFP342**	**70UFFP356**	**70UFFP384**
Order Code	00458R	00459G	00460X
4 units 177.8mm	**70UFFP442**	**70UFFP456**	**70UFFP484**
Order Code	00461H	00462F	00463D
5 units 222.25mm	**70UFFP542**	**70UFFP556**	**70UFFP584**
Order Code	00464B	00465X	00466R

1 unit = 1¾in (44.5mm)

These Front Panels are supplied in 3 width and 3 height increments based on Sub rack sizes. Each panel has holes to accept Handles, Unit Form Mounting Rails and captive Retaining Screws. Satin anodised finish.

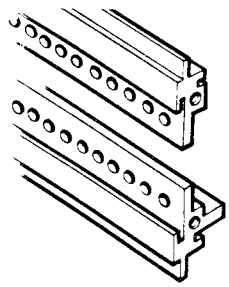
Handles Style 70 Unit Form



Extruded aluminium section, Satin Anodised finish. Supplied in 3 lengths compatible with ISEP Style 70 Unit Form Front Panels.

Code	*Length*	*Order Code*
70UFHN42	4.2in (106mm)	00450C
70UFHN56	5.6in (142mm)	00451A
70UFHN84	8.4in (213mm)	00452X

Mounting Rails Style 70 Unit Form



Extruded aluminium Satin Anodised finish. With M3 clearance holes at 0.2in (5.08mm) increments, the rails accept Locating Pips or M 3.5 Taptite Screw.
Top Rails have single flange.
Bottom Rails have double flange.

Code		*Order Code*
Single Flange Rail Top	Unit Form Depth nominal	
70UF1RL07	7in (177mm)	00439D
70UF1RL10	10in (254mm)	66282A

Code		
Double Flange Rail	Bottom	
70UF2RL07	7in (177mm)	00437H
70UF2RL10	10in (254mm)	66283X

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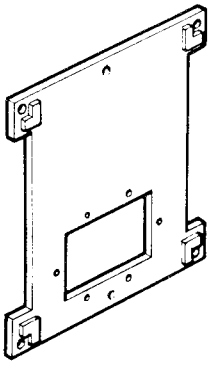
Back Plates Style 70 Unit Form



Contained in Unit Form E-PAK

Aluminium plates for mounting to rear end of Unit Rails, with cut-out for ITT Cannon connector Series RC 4100 or equivalent.

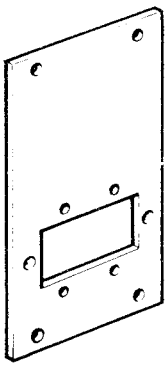
Finished clean with peel-off protective plastic coating, supplied in 3 height and 3 width increments.

Nominal Dimensions

Height	4.2in (106mm) Width	Order Code	5.6in (142mm) Width	Order Code	8.4in (213mm) Width	Order Code
3 units 133.35mm	**70UF BP 342**	00441E	**70UF BP 356**	00442C	**70UF BP 384**	00443A
4 units 177.8mm	**70UF BP 442**	00444X	**70UF BP 456**	00445H	**70UF BP 484**	00446F
5 units 222.25mm	**70UF BP 542**	00447D	**70UF BP 556**	00448B	**70UF BP 584**	00449X

1 unit = 1¾ in (44.5mm)

Connector Mounting Plates Style 70 and Style 19M Unit Form



Contained in Unit Form E-PAK

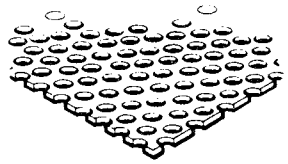
Aluminium Plates finished clean with peel-off protective plastic coating. Attached to rear Horizontal Mounting Rails of Sub rack. Provide mounting for ITT Cannon Socket Series RC4200 or equivalent. One width and 3 height increments for ISEP Style 70. Two width and height increments for ISEP Style 19M.

Nominal Dimensions

Height	Width 4.2in (106mm)	Order Code
3 units 133.35mm	**19M UF CMP 342** **70UF CMP 3**	07416E 66377R
4 units 177.8mm	**19M UF CMP 442** **70 UF CMP 4**	07423G 66007F
5 units 222.25mm	**19M UF CMP 542** **70UF CMP 5**	07425C 66378G

1 unit = 1¾ (44.5mm)

Perforated Top and Bottom Covers Style 70 Unit Form

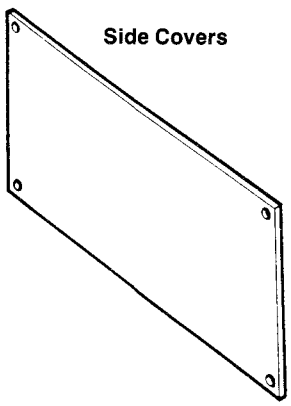


Contained in Unit Form Cover E-PAK

Aluminium Covers, with perforations to allow ventilation where closed Unit is required. Supplied for 7in and 10in deep Units and in 3 width increments.

Code	Unit Depth Nominal	Width nominal	Order Code
70UF TBC 4207	7in (177mm)	4.2in (106mm)	00422X
70UF TBC 5607	7in (177mm)	5.6in (142mm)	00423R
70UF TBC 8407	7in (177mm)	8.4in (213mm)	00424G
70UF TBC 4210	10in (254mm)	4.2in (106mm)	00419A
70UF TBC 5610	10in (254mm)	5.6in (142mm)	00420D
70UF TBC 8410	10in (254mm)	8.4in (213mm)	00421B

Side Covers Style 70 Unit Form



Contained in Unit Form Cover E-PAK

These Covers afford protection to components mounted within the Unit.

Supplied for 7in and 10in deep units and compatible for 3 Subrack height increments.

Code	Unit Depth Nominal	For Subrack Height Nominal	Order Code
70UF SC 307	7in (177mm)	3 units (133.35mm)	66354A
70UF SC 407	7in (177mm)	4 units (177.8mm)	66355X
70UF SC 507	7in (177mm)	5 units (222.25mm)	66357F
70UF SC 310	10in (254mm)	3 units (133.35mm)	66352E
70UF SC 410	10in (254mm)	4 units (177.8mm)	66353C
70UF SC 510	10in (254mm)	5 units (222.25mm)	66356H

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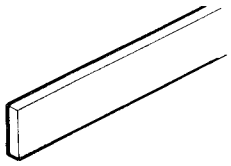
Components

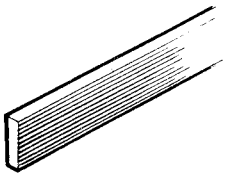
Designation Strips



Aluminium Strip supplied in 16.8in (476mm) lengths nominal. Used in place of threaded insert for trim purposes.

Code	Order Code	Contained in E-PAK
24-005-010	02066R	*A60*

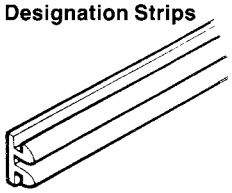
Designation Strips



Aluminium Strip Black finish). This is supplied in 16.8in (476mm) nominal lengths for used as trim and for designation purposes, suitable for silk screening.

Code	Order Code	Contained in E-PAK
24-005-012	02066R	*A61*

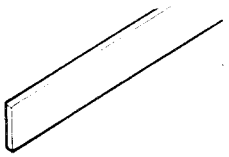
Designation Strips



Plastic designation Strip supplied in 16.8 (476mm) lengths nominal. Clips into Horizontal Rail.

Code	Order Code	Contained in E-PAK
24-016-011	*02120G*	*A62*

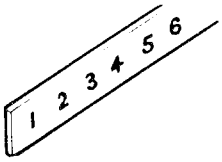
Paper Insert



White Heavy Weight paper suitable for designation marking for insertion into clear Retainer. Supplied in 20in (508mm) lengths nomninal.

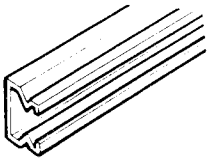
Code	Order Code	Contained in E-PAK
24-016-009	*02127D*	*A63*

Inserts (Printed)



Inserts supplied in 16.8in (476mm) lengths nominal. Printed one side only. Available to special order.

Designation Retainer (Clear)



Transparent plastic Retainer to hold paper designation Inserts, supplied in 16.8in (476mm) lengths nominal. Clips into Horizontal Rail.

Code	Order Code	Contained in E-PAK
24-016-012	*02166A*	*A63*

Designation Buttons for 2-Rail

Plastic Buttons for insertion in Guide Inserts (Locking type only). Range of colours available for designation purposes.

Colour	Code	Order Code	E-PAK
Brown	**34-016-001**	66008D	*A50*
Red	**34-016-002**	01604E	*A51*
Orange	**34-016-003**	01605C	*A52*
Yellow	**34-016-004**	01606A	*A53*
Green	**34-016-005**	01607X	*A54*
Blue	**34-016-006**	01608H	*A55*
Violet	**34-016-007**	01609F	*A56*
Grey	**34-016-008**	01610R	*A57*
White	**34-016-009**	01611G	*A58*
Black	**34-016-010**	01612E	*A59*

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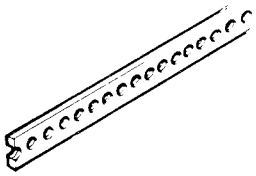
Threaded Inserts



Contained in Threaded Insert E-PAK

Threaded Inserts are used with ISEP Horizontal Rails to provide fixings at 0.20in (5.08mm) and 0.25 (6.35mm) increments. Available in M3 and M3,5 Rolled Thread.

SR TI 020	*Contained in E-PAK*	T1
SR TI 025	*Contained in E-PAK*	T2
MCM TI 020	*Contained in E-PAK*	T3
MCM TI 025	*Contained in E-PAK*	T4

M3,5 84HP

Code	*Order Code*	
SR TI 020	02623E	0.20in Pitch
SR TI 025	07404B	0.25in Pitch

M3 84HP

Code	*Order Code*	
MCM TI 020	07405X	0.20in Pitch
MCM TI 025	66498B	0.25in Pitch

M3,5 UNIT FORM

Code	*Order Code*	*Unit Form Nominal*
19M UF TI-07	07419X	7in (177mm)
19M UF TI-10	07449R	10in (254mm)

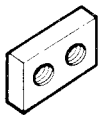
Single Fixing Nut

Contained in E-PAK A19

Used to secure small units such as Wiring Posts and Wiring Combs to Horizontal Rails where full length insert is not required.

Code	*Order Code*
24-001-001M (M3.5)	00150E

Double Fixing Nut



Contained in E-PAK A20

As Single Fixing Nut.

Code	*Order Code*
24-011-002M (M3.5)	01628X

Socket Support Fixing Screw

Contained in Socket Support, Modular Connector Mounting, Unit Form, and A48 E-PAK

This screw is used to mount Socket Supports and Modular Connector Mounting Brackets to Horizontal Rails.

The head is extended to accommodate the rear of Guide Rail M3.5 thread.

Code	*Order Code*
24-009-001M	01645R

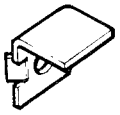
Guide Rail Locating Screw

Contained in Guide Rail E-PAK

Mounts into Horizontal Rail and provides snap fixing for front ends of Moulded Guide Rails. M3.5 thread.

Code	*Order Code*
24-009-002M (M3.5)	01646G

Guide Rail Locating Bracket

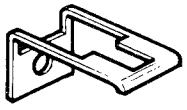


Contained in Unit Form, Connector Mounting and A48 E-PAK

This Bracket provides location for all Guide Rails within the Subrack where Socket Supports are not used, i.e. with modular edge connectors. Particularly applicable to Unit Form constructions, this Bracket is also used where combinations of Guide Rails are required.

Code	*Order Code*
24-006-002	02152B

Board Retaining Clip



Used in Board Form applications. Fitted to lower front Horizontal Rail and secured by Guide Rail Locating Screw.

Code	*Order Code*	*Contained in E-PAK*
24-019-001	02165C	A7

Locating Pip Style 70 Unit Form

Contained in Guide Rail and A21 E-PAK

Plastic double-ended moulding securing lateral Guide Rails within Unit Form or for Board retention on top-entry Boards.

Code	*Order Code*
70 UF LP	00417E

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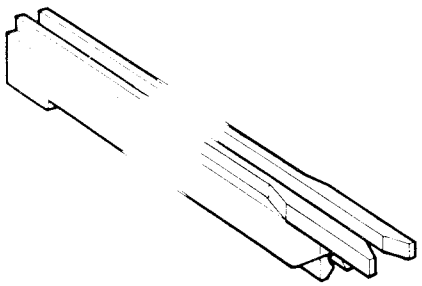
Components

Guide Rails (Moulded)



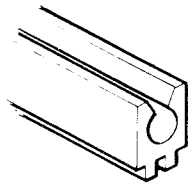
Contained in Guide Rail E-PAK

Guide Rails are fitted between Horizontal Rails to provide sliding track for Component Boards and ISEP Unit Form modules. Two lengths used singly or in combination cover the 3 Sub rack depths.

7in (177mm) Nominal Lengths Polycarbonate GV20 Natural	Order Code	*E-PAK*
GRP 7 1/16 for 1/16in (1.6mm) boards *14-018-011G*	02110X	*G3*
GRP 7 3/32 for 3/32in (1.6mm) boards *14-018-001G*	02140X	*G4*
10in (254mm) Nominal Lengths (Polycarbonate GV20 Natural)		
13-010-011 for 1/16in (1.6mm) boards *13-010-011 M*	02183X	*G5*
13-010-001 for 3/32in (2.4mm) boards *13-010-001 M*	02535E	*G6*

Italics represent obsolescent Codes

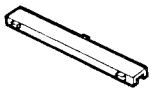
Guide Rails (Aluminium)



Aluminium Guide Rails, clean finish, of similar section to above are supplied for use in 7in (177mm) and 10in (254mm) deep Sub racks to replace moulded Guide Rails where Unit is likely to be particularly heavy.

Sub-Rack Depth nominal	*Code*	Order Code	*E-PAK*
7in (177mm)	**SR MGR07**	00511R	*G7*
10in (254mm)	**SR MGR10**	00510X	*G8*

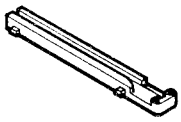
2-Rail Guide Inserts. Non locking



Fitted into top and bottom of Socket Support Bracket to accommodate 1/16in (1.6mm) or 3/32in (2.4mm) (nominal) Component Boards.

Code	Order Code	E-PAK
14-018-111 for 1/16 in boards	02366G	*G12*
14-018-101 for 3/32 in boards	02316E	*G13*

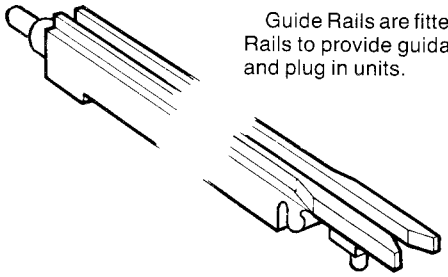
2-Rail Guide Inserts. Locking



Similar to Non-locking Insert but with Locking facility for Component Board. In this capacity a Non-locking Insert is used in top position of Socket Support. Twin holes in front of flexible locking portion accept designation buttons.

Code	Order Code	*E-PAK*
34-018-111 1/16in board (1.6mm) nominal	02372X	*G14*
34-018-101 for 3/32in boards (2.4mm) nominal	02373R	*G15*

Guide Rails (Moulded), Series 2



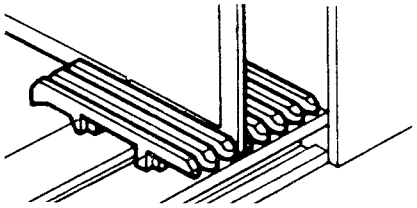
Guide Rails are fitted between Horizontal Rails to provide guidance for circuit boards and plug in units.

Moulded in Noryl and are available in two lengths used singly or in combination.

Sub-Rack Depth	Order Code	E-PAK
7in (177mm)	66428H	G20
10in. (254mm)	66429F	G21

Block Moulded Guide Rails, Series 2

Block Guides 2in long for 1/16" boards.



	Order Code	E-PAK
0.2in Pitch	66001G	G23
0.5in Pitch	66430R	G22

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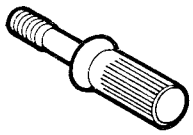
Captive Retaining Screws



Used to retain Front Panels to Top Horizontal Rail in ISEP Style 70 Panel and Unit Form.

ISEP Style 70

Code	Order Code
70 CRS (M3.5)	00425E

Used in ISEP Style 19M to retain front panels to top horizontal rail.

ISEP Style 19M Unit Form

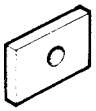
Code	Order Code
19M CRS (M3.5)	07420B

Crinkle Washer

Contained in Panel and Unit Form E-PAK
Fits under head of Captive Retaining Screw on ISEP Style 70 application.

Code	*Order Code*
70CW	00404D

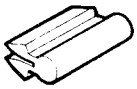
Retaining Clip



Contained in Panel and Unit Form E-PAK
Plastic Strip fitted into rear of ISEP Style 70 Front Panel to make captive the retaining Screw.

Code	*Order Code*
70RST	00482R

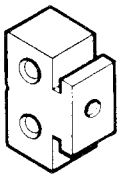
Retaining Clip Style 70. Panel and Unit Form



Contained in Panel and Unit Form E-PAK
Plastic Retention Clip fits into slot in rear of ISEP Style 70 Front Panels and engages in lower Horizontal Rail.

Code	*Order Code*
70RC	66350R

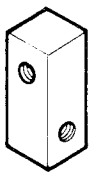
Clamp Fixing Block Style 70



Contained in Panel Form and CF1 E-PAK
Aluminium section, slotting into rear of Front Panel, enables the fixing of Component Board to Front Panel. Two required per Board.

Code	*Order Code*
70PF CFB	66495H

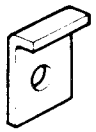
Fixing Block for Style 19M



Contained in Panel Form and CF2 E-PAK
Aluminium block enables the attachment of Component Board to rear of ISEP Style 19M Front Panel.

Code	*Order Code*
19MPF CFB	07412B

Cover Securing Clip Style 70 Unit Form



Contained in Unit Form Cover E-PAK
Clip attached to Unit Rear Plate to secure top and bottom covers.

Code	*Order Code*
70UF CC	00520G

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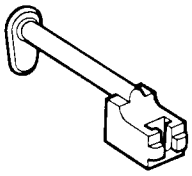
Components

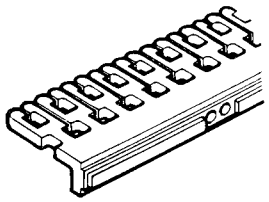
Wiring Post



Plastic moulded Post for attachment to Horizontal Rail and used for securing Wiring.

Code	Order Code	Contained in E-PAK
24-018-001	02216B	*A5*

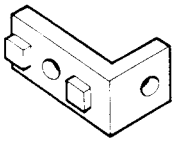
Wiring Comb



Plastic moulded Comb for attachment to Horizontal Rail. Used to secure and route multiple wiring harness to Subrack.

Code	Order Code	Contained in E-PAK
24-018-002 5.2in (132mm)	02217X	*A4*
24-018-003 7.6in (193mm)	02221H	*A3*

Height and Depth Splitting Bracket Style 70

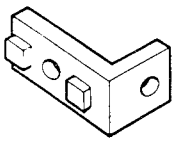


Contained in E-PAK A6

Right angle bracket with one plain and one CSK hole — used to secure lengths of horizontal rail where component boards of differing sizes are used in the same Sub rack.

Code	Order Code
24-006-001	02154R

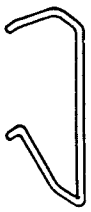
Height and Depth Splitting Bracket Series 2



Right angle bracket with one plain and one CSK hole — used to secure lengths of horizontal rail where component boards of differing sizes are used in the same Sub rack.

Code	Order Code
	66421X

Board Withdrawal Handle



Shaped metal Handle, facilitates withdrawal of Component Boards.

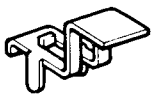
Code	Order Code	Contained in E-PAK
14-017-001	02553A	*A22*

Board Withdrawel Eyelet

Two used per Component Board for use with Board Withdrawel Handle.

Code	Order Code	Contained in E-PAK
24-014-001	01623X	*A22*

Modular Edge Connector End Clips



Used for mounting modular edge connectors. See ISEP Board Form application diagram. ITT 5170/1 combines Connector Mounting and Location for ISEP Guide Rail.

ITT 5170/2 is used from rear of Horizontal Rail to allow removal of Connector without disturbing Board guidance arrangements. Separate Bracket required for Guide Rail location.

Key Code	Order Code	Contained in E-PAK
88 — **ITT 5170/1**	Obsolete – Use 5170/2	*CM1*
89 — **ITT 5170/2**	00537X	*CM2*

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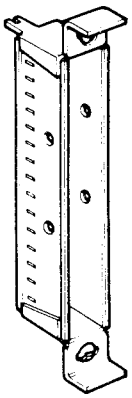
Socket Supports

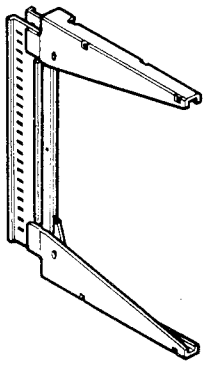


These Units provide mounting facilities for ISEP Female Connectors, terminal blocks and wiring guides, in 5 heights suitable for 2 to 6 unit height Subracks.

For ISEP Style 70 and Style 19M Subracks

Code	Size	Order Code	Contained in E-PAK
22-222-020	2 unit height	02085C	*S2*
22-222-021	3 unit height	02086A	*S3*
22-222-022	4 unit height	02087X	*S4*
22-222-023	5 unit height	02091G	*S5*
22-222-024	6 unit height	02092E	*S6*

Socket Supports for 2-Rail Subracks



These Supports provide mounting facility for ISEP Female Connectors, Terminal Blocks and Wiring Guides. Built-in right-angle Brackets accept the Guide Insert. The heights (HSR) are compatible with 2-Rail Sub Rack sizes.

Code	HSR in (mm)	Order Code	Contained in E-PAK
13-094-008	3.9 (99.06)	02683C	*S7*
13-094-007	4.7 (119.38)	02681G	*S8*
13-094-006	5.5 (139.7)	02677X	*S9*
13-094-005	6.3 (160.02)	02676A	*S10*
13-094-004	7.1 (180.34)	02672R	*S11*

Socket Support Fixing Screw for 2-Rail

Contained in Socket Support E-PAK

Special Screw for Mounting Socket Supports to Horizontal Rails only.

Code	Order Code
24-009-007	01647E

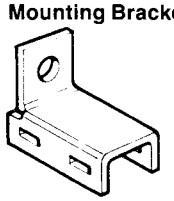
Fixing Strip

Contained in Socket Support and A39 E-PAK

Inserted through registration holes in Socket Support and Locating Lugs in ISEP Femal Connectors.

Code	Order Code
14-005-001	01621C

Mounting Bracket



This Bracket is available for applications when ISEP Female Standard and Heavy Duty Connectors are used other than in ISEP Socket Supports.

Code	Order Code	Contained in E-PAK
14-006-445	02155G	*A40*

Fixing Strip (Short)

Inserted through registration holes in Mounting Bracket and Locating Lugs in ISEP Female Connectors.

Code	Order Code	Contained in E-PAK
14-005-002	01622A	*A40*

Connector Mounting Spacer

Contained in Unit Form E-PAK

Used when mounting ITT Cannon plug series RC4200 or equivalent to rear Panel in all Unit Form applications. NB: See Unit Form publication for details of mountings.

Code	Order Code
CMS1	10527E

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