

Multicleat/Multistrap System

378 Series



Features and Benefits

- Suitable for use with cable diameters 24 to 145mm.
- Large range take on each size.
- Single or double bolt fixing.
- Operating temperatures -60°C to +105°C.
- All straps manufactured from non-magnetic 316L Stainless Steel.
- Plain Aluminium bases - for normal industrial areas or outdoor unpolluted areas.
- Epoxy coated Aluminium versions or Stainless Steel available for harsher environments.
- Bespoke tensioning adaptor included with every cleat and strap.
- Liners are made from LSOH materials.
- Suitable for single core cables laid in trefoil formation with high fault current capacities.
- Suitable for use with all standard ladder and tray systems.
- Suitable for groups of dissimilar cables.
- LUL APR Product ID 1996.
- Patent number 2082242.



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INTERNATIONAL

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Consisting of Aluminium or Stainless Steel bases with a Stainless Steel strap complete with a tensioning clip the BICON™ Multicleat system offers the best flexibility for cable fixing available on the market today. With an unprecedented test portfolio and service record, the Multicleat system should be your first choice for trefoil and single cables installations requiring a high system fault current rating.

Multistraps are used as intermediate restraints and are positioned centrally between a pair of Multicleats. The standard and heavy duty products have different short circuit ratings related to their installation spacings. Please consult the following information in order to make the correct selection.

All Multicleats and Multistraps now come with a disposable shear torque tensioning adapter. This was introduced in response to customer requests to improve the closure of the cleats and also better control the tension applied during installation. The adapter fits into the open end of the winding pin and is used with a standard 13mm socket wrench. Thus simplifying installation. When the correct tension has been applied the adapter shears off LSOH material liners are available for both the Multicleat and Multistrap. The LSOH conform to BS6853. Please contact the Prysmian Components technical team who will be able to offer the correct advice to suit your individual installation.

Installation Sequence



Fasten base to support with M10 fixings. Loop strap through base and around cables.
Standard duty = 2 loops.
Heavy Duty = 3 loops.



Pull slack into outer loop. Insert split pin from right hand side around outer layer of strap about 10mm from end. Push plastic shear torque adaptor fully onto the end of the split pin and attach 13mm socket wrench. To tension the strap rotate key anti-clockwise with the socket wrench until the adaptor shears.



Remove the shear torque adaptor and wrench. Swing the key over and engage in slots in clip.

Multicleat

Base Options		Cable Size				Liner										Dimensions and Weights																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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Aluminium	Two Bolts	Aluminium Epoxy Coated	Stainless Steel	Stainless Steel	Standard		Heavy Duty		Minimum Individual Cable Diameter (mm)	Maximum Individual Cable Diameter (mm)	Minimum Individual Cable Diameter (mm)	Maximum Individual Cable Diameter (mm)	01	02	03	04	05	06	07	08	09	36	37	38	39	40	41	42	132	145	06	290	242	1.572	290	250	-	2.643	315	-	76	82	85	104	108	135	147	0.634	0.648	0.701	145	138	118	116	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118	0.581	0.641	0.538	0.622	121	118

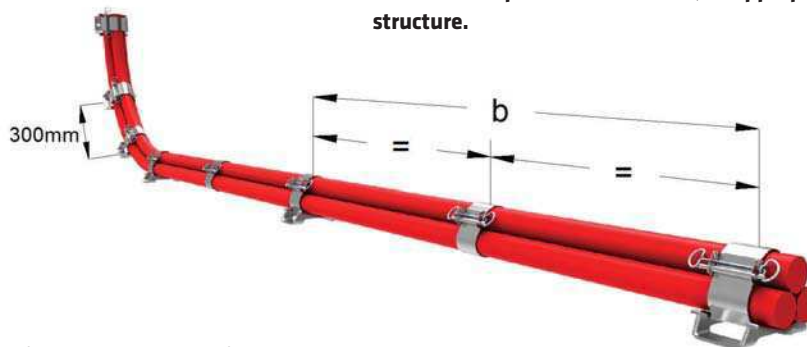
Multicleat/Multistrap Selection and Spacing for Fault Current Rating

Multicleat / Multistrap	Spacing 'b' m Max	Short Circuit		Cleat Spacing at vertical change of direction (mm)
		rms	peak	
Standard Duty	1.8	43	114	300
Heavy Duty	1.5	50	130	300
Heavy Duty	1.2	71	184	300

Important note: To ensure adequate restraint, Multistrap **MUST** be used at the mid-point between cleats on all horizontal and vertical straight runs.



Changes in direction require restraint spacing of 300mm maximum. Use Multistrap and/or Multicleat, as appropriate, to suit support structure.



Note: Bases should be fixed with one or two M10 fixing as appropriate.

Miscellaneous Arrangements



Multicleat/Multistrap System

The Multicleat / Multistrap system is ideally suited for securing groups of cables of differing sizes. The Prysmian technical help team will be able to match the correct cleat /strap to for the size and fault rating of the cable arrangement.