

# EMPEROR<sup>®</sup> CABLE CLEAT LINEAL SPACING GUIDELINES

<b>TABLE-1, CABLE CLEAT LINEAL SPACING</b>					
CABLE TYPE	CRITERIA	CONFIGURATION	HORIZONTAL	VERTICAL	BENDS
<b>Single-Core</b>	Short Circuit Withstand	Dual Trefoil Quad	225mm - 675mm (9" - 27") SEE TABLE 2		NOTE 3
<b>Single-Core</b>	Short Circuit Withstand	Flat	Calculation Required - Consult kVA Strategies		
<b>Multi-Core</b>	Short Circuit Withstand	All	225mm - 675mm (9" - 27") SEE TABLE 2		NOTE 3
<b>Single-Core and Multi-Core</b>	ABS Steel Vessel Rules	All	400mm (16")		
<b>Single-Core and Multi-Core</b>	IEEE-45	All	2.5m (8'-2")	610mm (24")	
<b>Single-Core and Multi-Core</b>	NEC (Cables in Cable Tray)	All	1.8m (6'-0")		
<b>Notes:</b>	<p>1. The recommendations herein are subject to interpretation by a registered professional engineer and are intended as general guidelines that must be verified by engineering calculation.</p> <p>2. Cables required to withstand short circuit forces shall be restrained with cable cleats according to the maximum spacing recommendations listed in TABLE-2.</p> <p>3. Cable cleats are recommended at each horizontal and vertical bend as follows:</p> <ul style="list-style-type: none"> <li>• 90° bend radii of 450mm (18") and less - cable cleats at the beginning and end of each bend</li> <li>• 90° bend radii &gt; 450mm (18") - cable cleats at the beginning, middle and end of each bend</li> <li>• 30°, 45° &amp; 60° bends - cable cleats at the beginning and end of each bend</li> </ul>				

<b>TABLE-2, SHORT CIRCUIT WITHSTAND (kA)</b>																
Cable Cleat Lineal Spacing	Conductor Spacing (millimeters)															
	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
225mm (9")	195	199	203	206	209	213	216	219	222	226	229	232	235	238	241	244
300mm (12")	169	172	175	178	181	184	187	190	193	195	198	201	203	206	209	211
450mm (18")	138	141	143	146	148	151	153	155	157	160	162	164	166	168	170	172
600mm (24")	120	122	124	126	128	130	132	134	136	138	140	142	144	146	148	149
675mm (27")	113	115	117	119	121	123	125	127	129	130	132	134	136	137	139	141