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Boreal™ Flexible braids



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Boreal Flexible braids

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Overview

Flexible braids for continuous current, grounding and bonding applications (i.e., cable tray)

Standard construction using 30 AWG individual wires is suitable for medium-duty applications. If needed, all constructions and/or configurations in this section can be supplied using 36 AWG wire for extra flexibility.

Rating of the connectors

It is important to note that the ampere ratings in this section are suggested for use as a reference only. If needed, we can certify ampacity of all connectors in our top-of-the-line automatic heat cycle laboratory using CEI60694 standards. The performance certificate gives you the assurance that our connectors are suitable for your application. Actual values used for a given application will depend on such factors as temperature rise, number of braids, voltage ratings and other conditions of service that need to be verified by application engineers.

Ferrules and plating

Ferrules are made of high-conductivity seamless 99.9% pure copper that are electro-tin plated prior to forming on each end of the assembly. This procedure is important to eliminate surface corrosion between the inside of the ferrule and the braids before compression can affect the connector's performance.

For increased pad conductivity, 30, 50 or 100 micron silver-plated ferrules are available. Nickel plating or bare copper also available upon request.

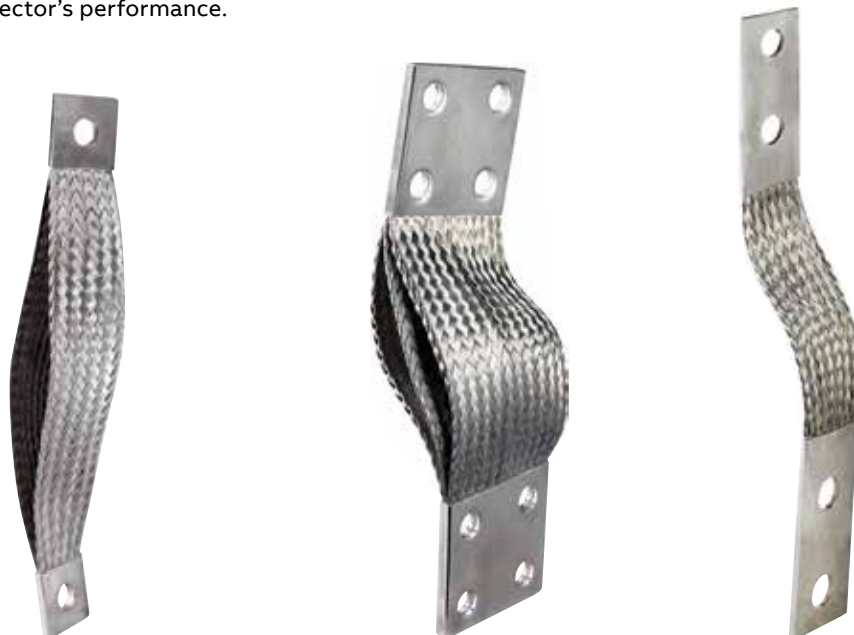
Length of the assemblies

All braid lengths are measured in inches and are measured from end to end. The last digits of the cat. no. determine the length of the connector (i.e., FBD12, "12" = 12 in.).

Options

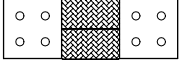
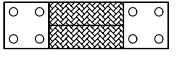
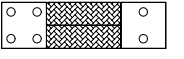
For special requests, provide a copy of your drawing with your specific requirements so we can design and build the flexible connectors to your exact specifications.

If needed, a wide range of insulation products is available depending on the application, voltage and temperature ratings.



Technical specifications

Technical specifications

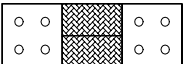
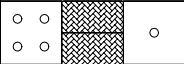
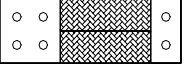
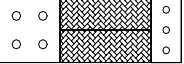
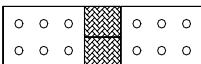
Configuration	Type	Ind. wire gauge size (AWG)	Width range (in.)	Rating range (amperes)	Comments
Extra-flexible links for heavy-duty application					
	FBEXA	36	1½–1¾	350–1,000	Extra-flexible 1-hole NEMA Boreal's top of the line
	FBEXB	36	1½–1¾	400–2,000	Extra-flexible 2-hole NEMA Boreal's top of the line
	FBEXG	36	1¾–2	900–1,650	Extra-flexible transformer link
	FBEXH	36	3–4	1,400–4,000*	Extra-flexible 4-hole NEMA Boreal's top of the line
	FBEXJ	36	3¼–3¾	2,300–3,600*	Extra-flexible 90° 4-hole NEMA Boreal's top of the line
Standard flexible links for medium-duty application					
	FBB**-1 FBC**-1 FBD**-1	30	1¼–1¾	350–1,000	NEMA std. grounding connectors
	FBD** FB2D**	30	1½–1¾	400–2,000	Same as FBEXB with 30 AWG wires
	FB3D** FBXD** FB2XD**	30	1½–2	700–1,750	Standard transformer link
	FBSWB	30	1½–2	700–1,750	Same construction as SWB with different hole pattern
	FBSWC	30	3	1,300–2,350	4 hole pads also available in wider configuration, refer to EXH, SWD and LTL series
	FBSWC	30	3	1,300–2,350	Same construction as SWC Type A with different hole configuration
	FBSWC	30	3	1,300–2,350	Same construction as SWC Type A with different hole configuration
	FBSWC	30	3	1,300–2,350	Same construction as SWC Type A with different hole configuration

* For ampacity over 2,500 please contact your inside sale representative

** Specify desired length.

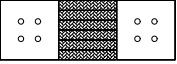
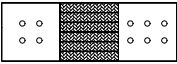
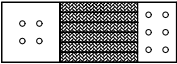
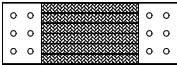
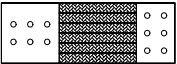
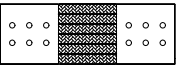
Technical specifications

Technical specifications

Configuration	Type	Ind. wire gauge size (AWG)	Width range (in.)	Rating range (amperes)	Comments
Standard flexible links for medium-duty application (cont'd)					
	FBSWC	30	3	1,300 – 2,350	Same construction as SWC with different hole configuration
	FBSWC	30	3	1,300 – 2,350	Same construction as SWC with different hole configuration
	FBSWC	30	3	1,300 – 2,350	Same construction as SWC with different hole configuration
	FBSWC	30	3	1,300 – 2,350	Same construction as SWC with different hole configuration
	FBSWC	30	2–4	600–1,850	Same construction as SWC with different hole configuration
	FBSWD	30	3¾–4¾	1600–2,100	4-hole transformer link
	FBSWC	30	3	1,300–2,100	1- to 4-hole transformer link
	FBSWD	30	3¾–4¾		1- to 4-hole transformer link
	FBSWD	30	3¾–4¾	1,600–2,100	2- to 4-hole transformer link
	FBSWD	30	3¾–4¾	1,600–2,100	3- to 4-hole transformer link
	FBSWE	30	3	1,400–1,600	6- to 4-hole transformer link
	FBSWF	30	3¾–4¾	1,700–2,300	6- to 4-hole transformer link
	FBSWE	30	3	1,400–1,600	6-hole transformer link
	FBSWF	30	3¾–4¾	1,700–2,300	6-hole transformer link

Technical specifications

Technical specifications

Configuration	Type	Ind. wire gauge size (AWG)	Width range (in.)	Rating range (amperes)	Comments
Large transformer links					
	FBLTL	30	6–6 $\frac{3}{8}$	2,500–4,000*	4-hole transformer link
	FBLTL	30	6–6 $\frac{3}{8}$	2,500–4,000*	4- to 6-hole transformer link
	FBLTL	30	6–6 $\frac{3}{8}$	2,500–4,000*	4- to 6-hole transformer link
	FBLTL	30	6–6 $\frac{3}{8}$	2,500–4,000*	6-hole transformer link
	FBLTL	30	6–6 $\frac{3}{8}$	2,500–4,000*	6-hole transformer link
	FBLTL	30	6–6 $\frac{3}{8}$	2,500–4,000*	6-hole transformer link

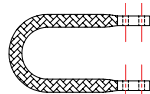
* For ampacity over 2,500 please contact your inside sale representative

Miscellaneous configurations and shapes

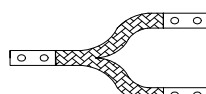
The following sketches represent the most popular configurations and shapes. For other non-standard flexible links and/or dimensions, send us a copy of your drawing with your specific requirements so that we can design and build the flexible connectors to your exact specifications.



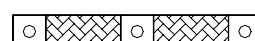
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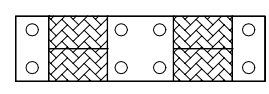
Model FBBU
Type A



Model FBBY
Type A



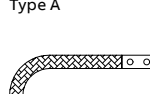
Model FBBE
Type A



Model FBBE
Type F



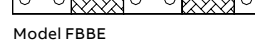
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Type B



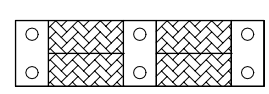
Model FBBU
Type B



Model FBBY
Type B



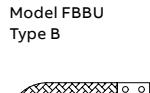
Model FBBE
Type B



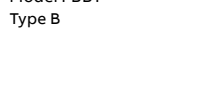
Model FBBE
Type G



Model FBBL
Type A



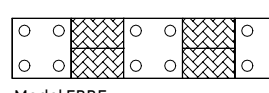
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Type C



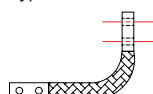
Model FBBY
Type C



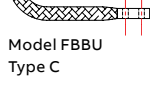
Model FBBE
Type C



Model FBBE
Type H



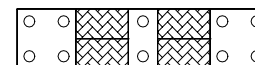
Model FBBL
Type B



Model FBBU
Type C



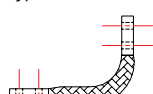
Model FBBY
Type C



Model FBBE
Type D



Model FBBE
Type E



Model FBBL
Type C

Selection guide

Minimum size flexible braid for continuous current applications

Cat. no.	Circular mils	Amperage capacity
FBB12-1	24,000	95
FBC12-1	48,000	145
FBD12-1	76,800	190
FBD12	76,800	190
FB2D12-1	153,600	330
FB2D12	153,600	630
FB3D12-1	230,400	470
FB312	230,400	470
FBXD12-1	105,600	235
FBXD12	105,600	235
FB2XD12-1	211,200	400
FB2XD12	211,200	400
FB3XD12-1	316,800	600
FB3XD12	316,800	600



Cat. no.	Circular mils	Amperage capacity
FBE12-1	16,800	340
FBE12	16,800	340
FB2E12-1	336,000	530
FB2E12	336,000	530
FB3E12	504,000	700
FB4E12	672,000	805
FBF12	230,400	360
FB2F12	460,800	600
FB3F12	691,200	820
FB4F12	921,600	1,000
FBG12	307,200	415
FB2G12	614,400	700
FB3G12	921,600	760
FB4G12	1,228,800	1,200

Grounding and bonding information

Minimum size conductors for bonding raceways and equipment

Rating or setting of overcurrent device in circuit ahead of equipment, conduit, etc. not exceeding amperes	Copper wire circular mils
200	26,240 (6 AWG)
300	41,740 (4 AWG)
400	52,620 (3 AWG)
500	66,360 (2 AWG)
600	83,690 (1 AWG)
800	105,600 (1/0)
1,000	133,100 (2/0)
1,200	167,800 (3/0)
1,600	211,600 (4/0)
2,000	250,000
2,500	350,000
3,000	400,000
4,000	500,000
5,000	700,000
6,000	800,000

Based on table 16 CEC

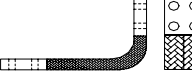
Minimum size of bare copper grounding conductor

Maximum available short circuit current amperes	Maximum fault duration with exothermic weld, compression or bolted joint	
	0.5 second circular mils	1.0 second circular mils
5,000	26,240	41,740
10,000	52,620	83,690
15,000	83,690	105,600
20,000	105,600	167,800
25,000	133,100	211,600
35,000	211,600	250,000
40,000	211,600	300,000
50,000	250,000	350,000
60,000	30,000	500,000
70,000	350,000	600,000
80,000	400,000	600,000
90,000	500,000	700,000
100,000	500,000	700,000

Based on table 51 CEC
Size calculated in accordance with IEEE No. 80.

Selection chart

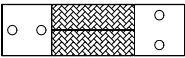
Switchgear and transformer links

Configuration	Type	Ind. wire gauge size (AWG)	Width range (in.)	Rating range (amperes)	Comments	Page
Extra-flexible links for heavy-duty applications						
	EXA	36	1½–1¾	350–1,000	Extra-flexible 1-hole NEMA Boreal's top of the line	D12
	EXB	36		400–2,000	Extra-flexible 2-hole NEMA Boreal's top of the line	D13
	EXG	36	1¾–2	900–1,650	Extra-flexible transformer link	D14
	EXH	36	3–4	1,400–4,000*	Extra-flexible 4-hole NEMA Boreal's top of the line	D15
	EXJ	36	3¼–3¾	2,300–3,600*	Extra-flexible 90° 4-hole NEMA Boreal's top of the line	D16
Standard flexible links for medium-duty applications						
	SWA	30	1¼–1¾	350–1,000	NEMA std. grounding connectors	D17
	SWB	30	1½–2	700–1,750	Standard transformer link	D18
		30	1½–2	700–1,750	Same construction as SWB with different hole pattern	D18
	STB	30	1½–1¾	400–2,000	Same as EXB with 30 AWG wires	D19
	SWC	30	3	1,300–2,350	4-hole pads also available in wider configuration, refer to EXH, SWD and LTL series	D20
	SWC	30	3	1,300–2,350	Same construction as SWC Type A with different hole configuration	D22
	SWC	30	3	1,300–2,350	Same construction as SWC Type A with different hole configuration	D23
	SWC	30	3	1,300–2,350	Same construction as SWC Type A with different hole configuration	D24

* For ampacity over 2,500 please contact your inside sale representative

Selection chart

Switchgear and transformer links

Configuration	Type	Ind. wire gauge size (AWG)	Width range (in.)	Rating range (amperes)	Comments	Page
Standard flexible links for medium-duty applications (cont'd)						
	SWC	30	3	1,300–2,350	Same construction as SWC with different hole configuration	D25
	SWC	30	3	1,300–2,350	Same construction as SWC with different hole configuration	D26
	SWC	30	3	1,300–2,350	Same construction as SWC with different hole configuration	D27
	SWC	30	3	1,300–2,350	Same construction as SWC with different hole configuration	D28
	SWC	30	2–4	600–1,850	Same construction as SWC with different hole configuration	D29
	SWD	30	3¾–4¾	1,600–2,100	4-hole transformer link	D30
	SWC	30	3	1,300–2,100	1- to 4-hole transformer link	D21
	SWD	30	3¾–4¾	1,300–2,100	1- to 4-hole transformer link	D21
	SWD	30	3¾–4¾	1,600–2,100	2- to 4-hole transformer link	D31
	SWD	30	3¾–4¾	1,600–2,100	3- to 4-hole transformer link	D32
	SWE	30	3	1,400–1,600	6- to 4-hole transformer link	D33
	SWF	30	3¾–4¾	1,700–2,300	6- to 4-hole transformer link	D33
	SWE	30	3	1,400–1,600	6-hole transformer link	D34
	SWF	30	3¾–4¾	1,700–2,300	6-hole transformer link	D34

Selection chart

Large transformer links

Configuration	Type	Ind. wire gauge size (AWG)	Width range (in.)	Rating range (amperes)	Comments	Page
Large transformer links						
	LTL	30	6–6 $\frac{3}{8}$	2,500–4,000*	4-hole transformer link	D35
	LTL	30	6–6 $\frac{3}{8}$	2,500–4,000*	4- to 6-hole transformer link	D36
	LTL	30	6–6 $\frac{3}{8}$	2,500–4,000*	4- to 6-hole transformer link	D37
	LTL	30	6–6 $\frac{3}{8}$	2,500–4,000*	6-hole transformer link	D38
	LTL	30	6–6 $\frac{3}{8}$	2,500–4,000*	6-hole transformer link	D39
	LTL	30	6–6 $\frac{3}{8}$	2,500–4,000*	6-hole transformer link	D40

* For ampacity over 2,500 please contact your inside sale representative

Miscellaneous configurations and shapes

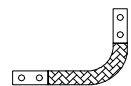
The following sketches represent the most popular configurations and shapes. For other non standard flexible links and/or dimensions, send us a copy of your drawing with your specific requirements so that we can conceive and build the flexible connectors to your exact specifications.



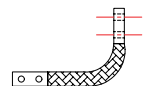
Model BBI
Type A



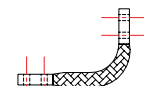
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Type B



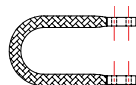
Model BBL
Type A



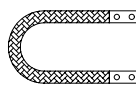
Model BBL
Type B



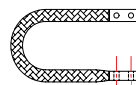
Model BBL
Type C



Model BBU
Type A



Model BBU
Type B



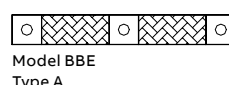
Model BBU
Type C



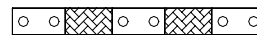
Model BBY
Type A



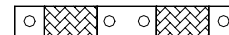
Model BBY
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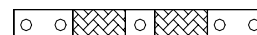
Model BBE
Type A



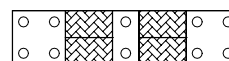
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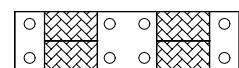
Model BBE
Type C



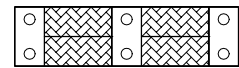
Model BBE
Type D



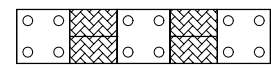
Model BBE
Type E



Model BBE
Type F



Model BBE
Type G



Model BBE
Type H

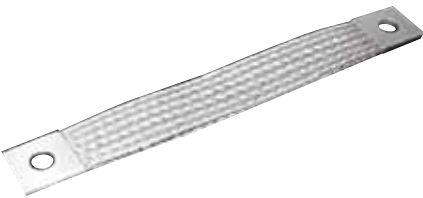
EXA series

36 AWG individual strand

Description:
1-hole NEMA, extra-flexible braided connectors using 36 AWG individual wires in braid construction for extra flexibility. These connectors are made with tin- or silver-plated high-conductivity 99.9% pure copper ferrules formed on each end. Individual wires used in braid are tinned prior to weaving so that maximum protection from corrosion is provided.

Application:
These highly flexible connectors are suitable wherever it is necessary to take up expansion, severe vibration and/or misalignment when connecting transformers, switchgear, generators or busbars.

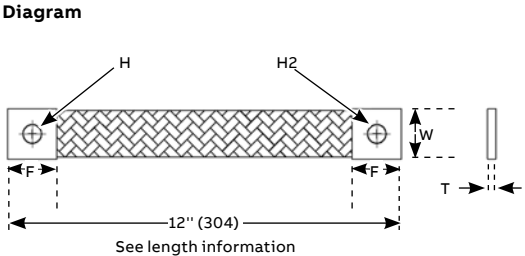
Ordering information:
Length: Standard total lengths are 304 mm (12 in.). If different lengths are required, add your desired length in millimeters at the end of the part number. Ex.: EXA050A1**406** (for 16 in. long)
Plating: Standard ferrules are electro-tin plated. Other options are available; please refer to page D4.



Extra-flexible connectors – 1-hole NEMA standard

Cat. no.	*Ampacity Δ 65 °C	No. of braids in assembly	W in. (mm)	F in. (mm)	H in. (mm)	H2 in. (mm)	T in. (mm)	Weight lb (g)
EXA035A1	350	1	1½ (38)	1½ (38)	⅞ (14.3)	⅞ (14.3)	⅜ (4.7)	0.49 (222)
EXA035A2	350	1	1½ (38)	1½ (38)	⅞ (14.3)	⅞ (11.1)	⅜ (4.7)	0.49 (222)
EXA035A3	350	1	1½ (38)	1½ (38)	⅞ (11.1)	⅞ (11.1)	⅜ (4.7)	0.49 (222)
EXA050A1	500	2	1½ (38)	1½ (38)	⅞ (14.3)	⅞ (14.3)	¼ (6.4)	0.84 (381)
EXA050A2	500	2	1½ (38)	1½ (38)	⅞ (14.3)	⅞ (11.1)	¼ (6.4)	0.84 (381)
EXA050A3	500	2	1½ (38)	1½ (38)	⅞ (11.1)	⅞ (11.1)	¼ (6.4)	0.84 (381)
EXA070A1	700	4	1½ (38)	1½ (38)	⅞ (14.3)	⅞ (14.3)	⅜ (9.5)	1.54 (699)
EXA070A2	700	4	1½ (38)	1½ (38)	⅞ (14.3)	⅞ (11.1)	⅜ (9.5)	1.54 (699)
EXA070A3	700	4	1½ (38)	1½ (38)	⅞ (11.1)	⅞ (11.1)	⅜ (9.5)	1.54 (699)
EXA100A1	1,000	6	1⅞ (40)	1⅞ (40)	⅞ (14.3)	⅞ (14.3)	½ (17.7)	2.31 (1,048)
EXA100A2	1,000	6	1⅞ (40)	1⅞ (40)	⅞ (14.3)	⅞ (11.1)	½ (17.7)	2.31 (1,048)
EXA100A3	1,000	6	1⅞ (40)	1⅞ (40)	⅞ (11.1)	⅞ (11.1)	½ (17.7)	2.31 (1,048)

*Temperature rise test per; CEI60694, IEEE / ANSI C37, 34 1994.



EXB series

36 AWG individual strand

Description:

2-hole NEMA, extra-flexible braided connectors using 36 AWG individual wires in braid construction for extra flexibility. These connectors are made with tin- or silver-plated high-conductivity 99.9% pure copper ferrules formed on each end. Individual wires used in braid are tinned prior to weaving so that maximum protection from corrosion is provided.

Application:

These highly flexible connectors are suitable wherever it is necessary to take up expansion, severe vibration and/or misalignment when connecting transformers, switchgear, generators or busbars.

Ordering information:

Length: Standard total lengths are 304 mm (12 in.). If different lengths are required, add your desired length in millimeters at the end of the part number. Ex.: EXB040A1**406** (for 16 in. long)

Plating: Standard ferrules are electro-tin plated. Other options are available; please refer to page D4.

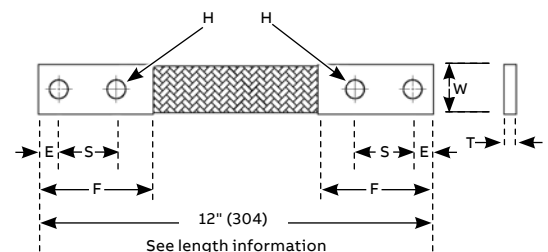


Extra-flexible connectors – 2-hole NEMA standard

Cat. no.	*Ampacity Δ 65 °C	No. of braids in assembly	W in. (mm)	F in. (mm)	E in. (mm)	S in. (mm)	H in. (mm)	T in. (mm)	Weight lb (g)
EXB040A1	400	1	1½ (38.1)	3½ (90)	⅝ (16)	1¾ (44.4)	⅜ (14.3)	⅜ (4.7)	0.63 (286)
EXB070A1	700	2	1½ (38.1)	3½ (90)	⅝ (16)	1¾ (44.4)	⅜ (14.3)	¼ (6.3)	0.97 (440)
EXB090A1	900	3	1½ (38.1)	3½ (90)	⅝ (16)	1¾ (44.4)	⅜ (14.3)	1½ (9.5)	1.30 (590)
EXB110A1	1,100	4	1½ (38.1)	3½ (90)	⅝ (16)	1¾ (44.4)	⅜ (14.3)	⅝ (9.5)	1.66 (753)
EXB150A1	1,500	6	1½ (38.1)	3½ (90)	⅝ (16)	1¾ (44.4)	⅜ (14.3)	½ (12.7)	2.26 (1,025)
EXB170A1	1,700	9	1½ (38.1)	3½ (90)	⅝ (16)	1¾ (44.4)	⅜ (14.3)	¾ (19)	3.71 (1,683)
EXB200A1	2,000	13	1½ (38.1)	3½ (90)	⅝ (16)	1¾ (44.4)	⅜ (14.3)	1 (25.4)	5.21 (2,363)

*Temperature rise test per; CEI60694, IEEE / ANSI C37, 34 1994.

Diagram



EXG series

36 AWG individual strand

Description:
3/2-hole NEMA, extra-flexible braided connectors using 36 AWG individual wires in braid construction for extra flexibility. These connectors are made with tin- or silver-plated high-conductivity 99.9% pure copper ferrules formed on each end. Individual wires used in braid are tinned prior to weaving so that maximum protection from corrosion is provided.

Application:
These highly flexible connectors are suitable wherever it is necessary to take up expansion, severe vibration and/or misalignment when connecting transformers, switchgear, generators or busbars.

Ordering information:
Length: Standard total lengths are 304 mm (12 in.). If different lengths are required, add your desired length in millimeters at the end of the part number. Ex.: EXG140A1406 (for 16 in. long)
Plating: Standard ferrules are electro-tin plated. Other options are available; please refer to page D4.

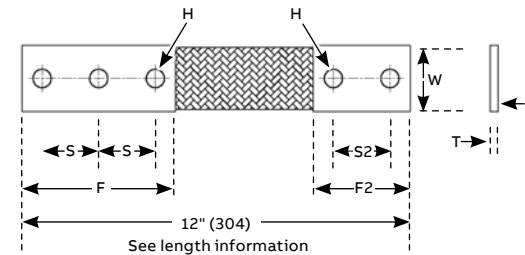


Extra-flexible connectors – 3/2-hole NEMA standard

Cat. no.	*Ampacity Δ 65 °C	W in. (mm)	F in. (mm)	S in. (mm)	H in. (mm)	F2 in. (mm)	S2 in. (mm)	T in. (mm)	Weight lb (g)
EXG090A1	900	2 (50.8)	4¾ (120.6)	1¾ (44.4)	⅝ (14.3)	3 (76.2)	1¾ (44.4)	¼ (6.3)	1.55 (703)
EXG090A2	900	2 (50.8)	4½ (114.4)	1½ (38.1)	⅝ (14.3)	3 (76.2)	1¾ (44.4)	¼ (6.3)	1.55 (703)
EXG140A1	1,400	1 ¾ (44.4)	4¾ (120.6)	1¾ (44.4)	⅝ (14.3)	3 (76.2)	1¾ (44.4)	½ (12.7)	2.17 (984)
EXG140A2	1,400	1 ¾ (44.4)	4½ (114.4)	1½ (38.1)	⅝ (14.3)	3 (76.2)	1¾ (44.4)	½ (12.7)	2.17 (984)
EXG165A1	1,650	2 (50.8)	4¾ (120.6)	1¾ (44.4)	⅝ (14.3)	3 (76.2)	1¾ (44.4)	½ (12.7)	2.69 (1,220)
EXG165A2	1,650	2 (50.8)	4½ (114.4)	1½ (38.1)	⅝ (14.3)	3 (76.2)	1¾ (44.4)	½ (12.7)	2.69 (1,220)

*Temperature rise test per; CEI60694, IEEE / ANSI C37, 34 1994.

Diagram





EXH series

36 AWG individual strand

Description:

4-hole NEMA, extra-flexible braided connectors using 36 AWG individual wires in braid construction for extra flexibility. These connectors are made with tin- or silver-plated high-conductivity seamless 99.9% pure copper ferrules formed on each end. Individual wires used in braid are tinned prior to weaving so that maximum protection from corrosion is provided.

Application:

These highly flexible connectors are suitable wherever it is necessary to take up expansion, severe vibration and/or misalignment when connecting transformers, switchgear, generators or busbars.



Ordering information:

Length: Standard total lengths are 304 mm (12 in.). If different lengths are required, add your desired length in millimeters at the end of the part number. Ex.: EXH150A1406 (for 16 in. long)

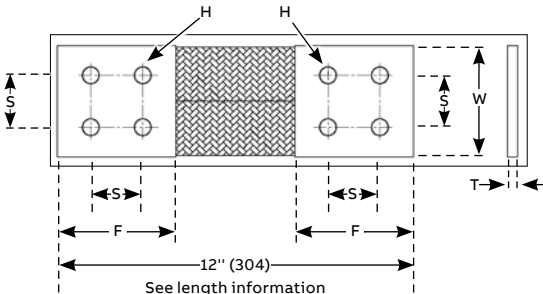
Plating: Standard ferrules are electro-tin plated. Other options are available; please refer to page D4.

Extra-flexible connectors – 4-hole NEMA standard

Cat. no.	*Ampacity Δ 65 °C	No. of braids in assembly	W in. (mm)	F in. (mm)	S in. (mm)	H in. (mm)	T in. (mm)	Weight lb (g)
EXH140A1	1,400	4	3 (76)	3 (76)	1¼ (44)	⅝ (14)	¼ (6.4)	1.91 (866)
EXH150A1	1,500	6	3 (76)	3 (76)	1¼ (44)	⅝ (14)	11/32 (8.7)	2.57 (1,166)
EXH235A1	2,350	8	3¾ (96)	4 (101)	1¼ (44)	⅝ (14)	⅜ (9.5)	4.00 (1,814)
EXH245A1	2,450	12	3¾ (96)	4 (101)	1¼ (44)	⅝ (14)	½ (12.7)	5.32 (2,413)
EXH250A1	2,500**	16	3⅝ (92)	4 (101)	1¼ (44)	⅝ (14)	⅝ (15.9)	6.60 (2,994)
EXH340A1	3,400**	30	4 (101)	4 (101)	1¼ (44)	⅝ (14)	7/8 (22.3)	11.36 (5,153)
EXH400A1	4,000**	40	4 (101)	4 (101)	1¼ (44)	⅝ (14)	1⅞ (28.6)	15.57 (7,063)

*Temperature rise test per; CEI60694, IEEE / ANSI C37, 34 1994.
** For ampacity over 2,500 please contact your inside sale representative

Diagram



EXJ series

36 AWG individual strand

Description:
4-hole NEMA, 90° shape, extra-flexible braided connectors using 36 AWG individual wires in braid construction for extra flexibility. These connectors are made with tin- or silver-plated high-conductivity seamless copper ferrules formed on each end. Individual wires used in braid are tinned prior to weaving so that maximum protection from corrosion is provided.



Application:
These highly flexible 90° connectors are suitable wherever it is necessary to take up expansion, severe vibration and/or misalignment when connecting transformers, switchgear, generators or busbars.

Ordering information:
Length: For different lengths, add your desired length (H & L) in millimeters at the end of the part number.
Ex.: EXJ230A1-279-140

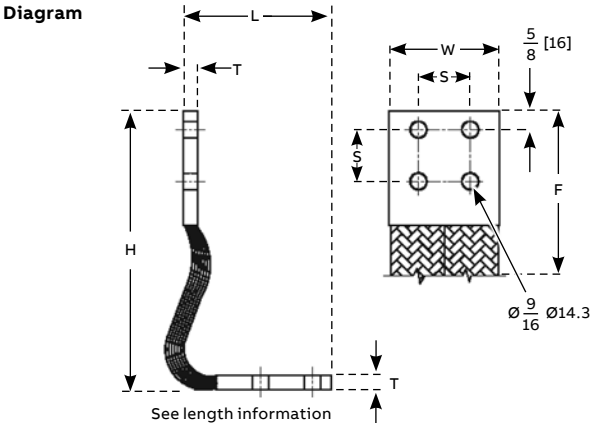


Plating: Standard ferrules are electro-tin plated. Other options are available; please refer to page D4.

90° Extra-flexible connectors – 4-hole NEMA standard

Cat. no.	*Ampacity Δ 65 °C	No. of braids in assembly	H in. (mm)	L in. (mm)	W in. (mm)	F in. (mm)	S in. (mm)	T in. (mm)	Weight lb (g)
EXJ230A1	2,300	8	11 (279)	5 (127)	3¼ (95)	3⅞ (98)	1¾ (44.4)	⅝ (9.5)	3.84 (1,742)
EXJ230A2	2,300	8	11 (279)	6 (152)	3¼ (95)	3⅞ (98)	1¾ (44.4)	⅝ (9.5)	3.84 (1,742)
EXJ230A3	2,300	8	11 (279)	9 (229)	3¼ (95)	3⅞ (98)	1¾ (44.4)	⅝ (9.5)	3.84 (1,742)
EXJ260A1	2,600**	12	11 (279)	5 (127)	3¼ (95)	3⅞ (98)	1¾ (44.4)	½ (12.7)	5.20 (2,359)
EXJ260A2	2,600**	12	11 (279)	6 (152)	3¼ (95)	3⅞ (98)	1¾ (44.4)	½ (12.7)	5.20 (2,359)
EXJ260A3	2,600**	12	11 (279)	9 (229)	3¼ (95)	3⅞ (98)	1¾ (44.4)	½ (12.7)	5.20 (2,359)
EXJ300A1	3,000**	20	11 (279)	5 (127)	3⅞ (92)	3¾ (95)	1¾ (44.4)	¾ (19)	7.89 (3,579)
EXJ300A2	3,000**	20	11 (279)	6 (152)	3⅞ (92)	3¾ (95)	1¾ (44.4)	¾ (19)	7.89 (3,579)
EXJ300A3	3,000**	20	11 (279)	9 (229)	3⅞ (92)	3¾ (95)	1¾ (44.4)	¾ (19)	7.89 (3,579)
EXJ360A1	3,000**	26	11 (279)	4½ (114)	3¼ (83)	3⅞ (92)	1¾ (44.4)	1 (25.4)	9.85 (4,468)
EXJ360A2	3,000**	26	11 (279)	5½ (140)	3¼ (83)	3⅞ (92)	1¾ (44.4)	1 (25.4)	9.85 (4,468)
EXJ360A3	3,000**	26	11 (279)	9 (229)	3¼ (83)	3⅞ (92)	1¾ (44.4)	1 (25.4)	9.85 (4,468)

*Temperature rise test per; CEI60694, IEEE / ANSI C37, 34 1994
** For ampacity over 2,500 please contact your inside sale representative



SWA series

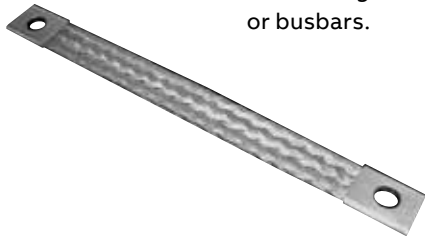
36 AWG individual strand

Description:

1-hole NEMA, flexible braided connectors using 30 AWG individual wires in braid construction for extra flexibility. These connectors are made with tin- or silver-plated high-conductivity 99.9% pure copper ferrules formed on each end. Individual wires used in braid are tinned prior to weaving so that maximum protection from corrosion is provided.

Application:

These highly flexible connectors are suitable wherever it is necessary to take up expansion, severe vibration and/or misalignment when connecting transformers, switchgear, generators or busbars.



Ordering information:

Length: Standard total lengths are 304 mm (12 in.). If different lengths are required, add your desired length in millimeters at the end of the part number. Ex.: SWA100A3406 (for 16 in. long)

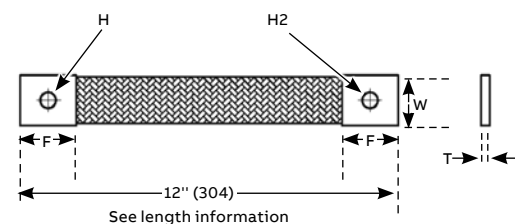
Plating: Standard ferrules are electro-tin plated. Other options are available; please refer to page D4.

Standard flexible connectors – 1-hole NEMA standard

Cat. no.	*Ampacity Δ 65 °C	W in. (mm)	F in. (mm)	H in. (mm)	H2 in. (mm)	T in. (mm)	Weight lb (g)
SWA035A1	350	1¼ (31.8)	1½ (38.1)	⅜ (14.3)	⅜ (14.3)	¼ (6.3)	0.48 (218)
SWA035A2	350	1¼ (31.8)	1½ (38.1)	⅜ (14.3)	⅞ (11.1)	¼ (6.3)	0.48 (218)
SWA035A3	350	1¼ (31.8)	1½ (38.1)	⅜ (11.1)	⅞ (11.1)	¼ (6.3)	0.48 (218)
SWA055A1	550	1⅝ (34.9)	1½ (38.1)	⅜ (14.3)	⅜ (14.3)	⅞ (5.6)	0.63 (286)
SWA055A2	550	1⅝ (34.9)	1½ (38.1)	⅜ (14.3)	⅞ (11.1)	⅞ (5.6)	0.63 (286)
SWA055A3	550	1⅝ (34.9)	1½ (38.1)	⅜ (11.1)	⅞ (11.1)	⅞ (5.6)	0.63 (286)
SWA070A1	700	1½ (38.1)	1½ (38.1)	⅜ (14.3)	⅜ (14.3)	¼ (6.3)	0.95 (431)
SWA070A2	700	1½ (38.1)	1½ (38.1)	⅜ (14.3)	⅞ (11.1)	¼ (6.3)	0.95 (431)
SWA070A3	700	1½ (38.1)	1½ (38.1)	⅜ (11.1)	⅞ (11.1)	¼ (6.3)	0.95 (431)
SWA070A4	700	2 (50.8)	2 (50.8)	⅜ (14.3)	⅜ (14.3)	¼ (6.3)	0.95 (431)
SWA100A1	1,000	1¾ (44.4)	2 (50.8)	⅜ (14.3)	⅜ (14.3)	½ (12.7)	1.23 (558)
SWA100A2	1,000	1¾ (44.4)	2 (50.8)	⅜ (14.3)	⅞ (11.1)	½ (12.7)	1.23 (558)
SWA100A3	1,000	1¾ (44.4)	2 (50.8)	⅜ (11.1)	⅞ (11.1)	½ (12.7)	1.23 (558)

*Temperature rise test per: CEI60694, IEEE / ANSI C37, 34 1994.

Diagram



SWB series

30 AWG individual strand



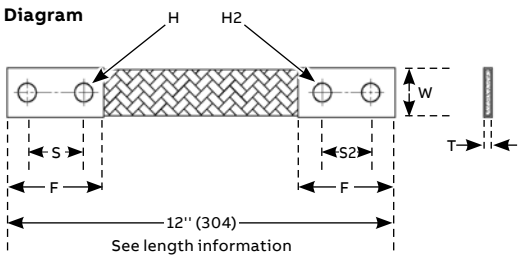
Ordering information:

Length: Standard total lengths are 304 mm (12 in.). If different lengths are required, add your desired length in millimeters at the end of the part number. Ex.: SWB070A1**406** (for 16 in. long)

Plating: Standard ferrules are electro-tin plated. Other options are available; please refer to page D4.

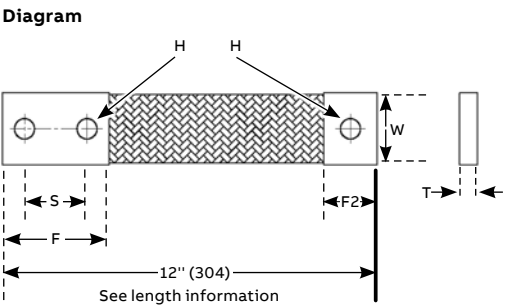
Standard flexible connectors – 2-hole NEMA standard

Cat. no.	*Ampacity Δ 65 °C	W in. (mm)	F in. (mm)	S in. (mm)	H in. (mm)	S2 in. (mm)	H2 in. (mm)	T in. (mm)	Weight lb (g)
SWB070A1	700	2 (50.8)	3 (76.2)	1¾ (44.4)	⅜ (14.3)	1¾ (44.4)	⅜ (14.3)	¼ (6.3)	1.07 (485)
SWB070A2	700	1½ (38.1)	3 (76.2)	1¾ (44.4)	⅜ (14.3)	1¾ (44.4)	⅜ (14.3)	¼ (6.3)	1.07 (485)
SWB070A3	700	1½ (38.1)	3 (76.2)	1¾ (44.4)	⅜ (14.3)	1½ (38.1)	⅜ (14.3)	¼ (6.3)	1.07 (485)
SWB070A4	700	1½ (38.1)	3 (76.2)	1¾ (44.4)	⅜ (14.3)	1½ (38.1)	⅞ (11.1)	¼ (6.3)	1.07 (485)
SWB105A1	1,050	1¾ (44.4)	3 (76.2)	1¾ (44.4)	⅜ (14.3)	1¾ (44.4)	⅜ (14.3)	½ (12.7)	1.42 (644)
SWB175A1	1,750	2 (50.8)	3 (76.2)	1¾ (44.4)	⅜ (14.3)	1¾ (44.4)	⅜ (14.3)	½ (12.7)	3.06 (1,388)



Standard flexible connectors – 2-hole NEMA standard

Cat. no.	*Ampacity Δ 65 °C	W in. (mm)	F in. (mm)	S in. (mm)	H in. (mm)	S2 in. (mm)	H2 in. (mm)	T in. (mm)	Weight lb (g)
SWB070B1	700	1½ (38.1)	3 (76.2)	1¾ (44.4)	⅜ (14.3)	–	–	¼ (6.3)	1.04 (472)
SWB105B1	1,050	1¾ (44.4)	3 (76.2)	1¾ (44.4)	⅜ (14.3)	–	–	½ (12.7)	1.37 (621)
SWB175B1	1,750	2 (50.8)	3 (76.2)	1¾ (44.4)	⅜ (14.3)	–	–	½ (12.7)	3.00 (1,361)





STB series

30 AWG individual strand

Description:
2-hole NEMA, flexible braided connectors using 30 AWG individual wires in braid construction for extra flexibility. These connectors are made with tin- or silver- plated high-conductivity seamless 99.9% pure copper ferrules formed on each end. Individual wires used in braid are tinned prior to weaving so that maximum protection from corrosion is provided.

Application:
These highly flexible connectors are suitable wherever it is necessary to take up expansion, moderate vibration and/or misalignment when connecting transformers, switchgear, generators or busbars.

Ordering Information:
Length: Standard total lengths are 304 mm (12 in.). If different lengths are required, add your desired length in millimeters at the end of the part number. Ex.: STB070A1**406** (for 16 in. long)
Plating: Standard ferrules are electro-tin plated. Other options are available; please refer to page D4.

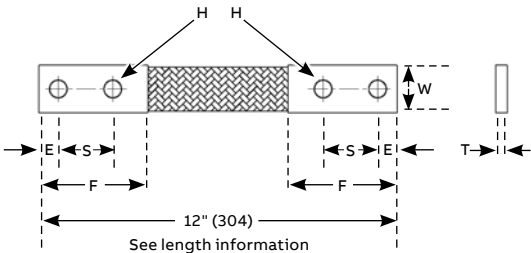


Standard flexible connectors – 2-hole NEMA standard

Cat. no.	*Ampacity Δ 65 °C	No. of Braids in assembly	W in. (mm)	F in. (mm)	E in. (mm)	S in. (mm)	H in. (mm)	T in. (mm)	Weight lb (g)
STB040A1	400	1	1½ (38.1)	3½ (90)	⅝ (16)	1¾ (44.4)	⅝ (14.3)	⅝ (4.7)	0.63 (286)
STB070A1	700	2	1½ (38.1)	3½ (90)	⅝ (16)	1¾ (44.4)	⅝ (14.3)	¾ (6.3)	0.98 (445)
STB090A1	900	3	1½ (38.1)	3½ (90)	⅝ (16)	1¾ (44.4)	⅝ (14.3)	11⁄32 (8.7)	1.31 (594)
STB110A1	1,100	4	1½ (38.1)	3½ (90)	⅝ (16)	1¾ (44.4)	⅝ (14.3)	⅜ (9.5)	1.67 (758)
STB150A1	1,500	6	1½ (38.1)	3½ (90)	⅝ (16)	1¾ (44.4)	⅝ (14.3)	½ (12.7)	2.29 (1,039)
STB170A1	1,700	9	1⅝ (40)	3½ (90)	⅝ (16)	1¾ (44.4)	⅝ (14.3)	¾ (19)	3.76 (1,706)
STB200A1	2,000	13	1⅝ (40)	3½ (90)	⅝ (16)	1¾ (44.4)	⅝ (14.3)	1 (25.4)	5.26 (2,386)

*Temperature rise test per; CEI60694, IEEE / ANSI C37, 34 1994.

Diagram



SWC series
30 AWG individual strand



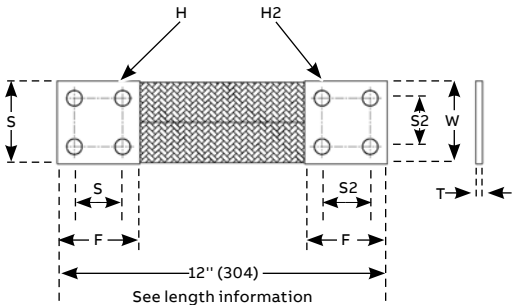
Ordering information:
Length: Standard total lengths are 304 mm (12 in.).
For different lengths, add your desired length in millimeters at the end of the part number.
Ex.: SWC130A1406 (for 16 in. long)
Plating: Standard ferrules are electro-tin plated.
Other options are available; please refer to page D4.

Standard flexible connectors – 4-hole NEMA standard

Cat. no.	*Ampacity Δ 65 °C	W in. (mm)	F in. (mm)	S in. (mm)	H in. (mm)	S2 in. (mm)	H2 in. (mm)	T in. (mm)	Weight lb (g)
SWC130A1	1,300	3 (76.2)	3 (76.2)	1¼ (44.4)	⅜ (14.3)	1¼ (44.4)	⅜ (14.3)	¼ (6.3)	1.93 (875)
SWC130A2	1,300	3 (76.2)	3 (76.2)	1¼ (44.4)	⅜ (14.3)	1½ (38.1)	⅞ (11.1)	¼ (6.3)	1.93 (875)
SWC130A3	1,300	3 (76.2)	3 (76.2)	1½ (38.1)	⅞ (11.1)	1½ (38.1)	⅞ (11.1)	¼ (6.3)	1.93 (875)
SWC150A1	1,500	3 (76.2)	3 (76.2)	1¼ (44.4)	⅜ (14.3)	1¼ (44.4)	⅜ (14.3)	⅝ (8)	2.62 (1,188)
SWC150A2	1,500	3 (76.2)	3 (76.2)	1¼ (44.4)	⅜ (14.3)	1½ (38.1)	⅞ (11.1)	⅝ (8)	2.62 (1,188)
SWC150A3	1,500	3 (76.2)	3 (76.2)	1½ (38.1)	⅞ (11.1)	1½ (38.1)	⅞ (11.1)	⅝ (8)	2.62 (1,188)
SWC215A1	2,150	3 (76.2)	3 (76.2)	1¼ (44.4)	⅜ (14.3)	1¼ (44.4)	⅜ (14.3)	⅜ (9.5)	3.31 (1,501)
SWC215A2	2,150	3 (76.2)	3 (76.2)	1¼ (44.4)	⅜ (14.3)	1½ (38.1)	⅞ (11.1)	⅜ (9.5)	3.31 (1,501)
SWC215A3	2,150	3 (76.2)	3 (76.2)	1½ (38.1)	⅞ (11.1)	1½ (38.1)	⅞ (11.1)	⅜ (9.5)	3.31 (1,501)
SWC235A1	2,350	3 (76.2)	3 (76.2)	1¼ (44.4)	⅜ (14.3)	1¼ (44.4)	⅜ (14.3)	½ (12.7)	4.69 (2,127)
SWC235A2	2,350	3 (76.2)	3 (76.2)	1¼ (44.4)	⅜ (14.3)	1½ (38.1)	⅞ (11.1)	½ (12.7)	4.69 (2,127)
SWC235A3	2,350	3 (76.2)	3 (76.2)	1½ (38.1)	⅞ (11.1)	1½ (38.1)	⅞ (11.1)	½ (12.7)	4.69 (2,127)

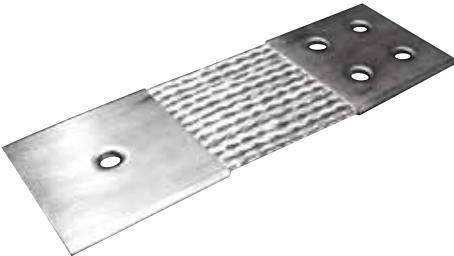
*Temperature rise test per; CEI60694, IEEE / ANSI C37, 34 1994.

Diagram



SWC/D series

30 AWG individual strand



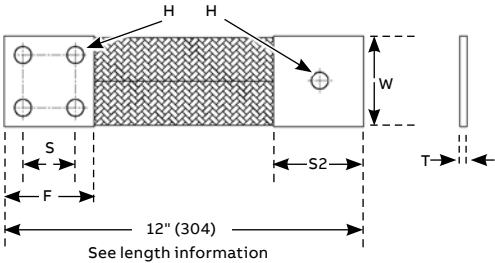
Ordering information:
Length: Standard total lengths are 304 mm (12 in.). If different lengths are required, add your desired length in millimeters at the end of the part number.
Ex.: SWC130B1406 (for 16 in. long)
Plating: Standard ferrules are electro-tin plated. Other options are available; please refer to page D4.

Standard flexible connectors – 4/1-hole NEMA standard

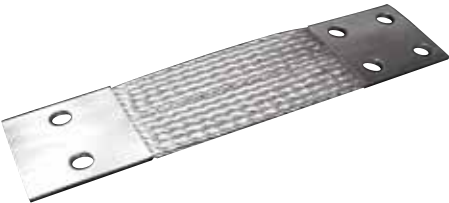
Cat. no.	*Ampacity Δ 65 °C	W in. (mm)	F in. (mm)	S in. (mm)	H in. (mm)	H2 in. (mm)	T in. (mm)	Weight lb (g)
SWC130B1	1,300	3 (76.2)	3 (76.2)	1 3⁄4 (44.4)	9⁄16 (14.3)	9⁄16 (14.3)	1⁄4 (6.3)	1.99 (903)
SWC150B1	1,500	3 (76.2)	3 (76.2)	1 3⁄4 (44.4)	9⁄16 (14.3)	9⁄16 (14.3)	5⁄16 (8)	2.69 (1,220)
SWC215B1	2,150	3 (76.2)	3 (76.2)	1 3⁄4 (44.4)	9⁄16 (14.3)	9⁄16 (14.3)	3⁄8 (9.5)	3.40 (1,542)
SWD160B1	1,600	4 (101)	4 (101)	1 3⁄4 (44.4)	9⁄16 (14.3)	9⁄16 (14.3)	1⁄4 (6.3)	2.60 (1,179)
SWD160B2	1,600	4 (101)	4 (101)	2 (50.8)	9⁄16 (14.3)	23⁄32 (18.2)	1⁄4 (6.3)	2.60 (1,179)
SWD190B1	1,900	4 3⁄4 (120.6)	4 (101)	1 3⁄4 (44.4)	9⁄16 (14.3)	9⁄16 (14.3)	1⁄4 (6.3)	2.72 (1,234)
SWD190B2	1,900	4 3⁄4 (120.6)	4 (101)	2 (50.8)	9⁄16 (14.3)	23⁄32 (18.2)	1⁄4 (6.3)	2.72 (1,234)
SWD210B1	2,100	3 3⁄4 (95.3)	4 (101)	1 3⁄4 (44.4)	9⁄16 (14.3)	9⁄16 (14.3)	3⁄8 (9.5)	4.01 (1,819)
SWD210B2	2,100	3 3⁄4 (95.3)	4 (101)	2 (50.8)	9⁄16 (14.3)	23⁄32 (18.2)	3⁄8 (9.5)	4.01 (1,819)

*Temperature rise test per; CEI60694, IEEE / ANSI C37, 34 1994.

Diagram



SWC series
30 AWG individual strand

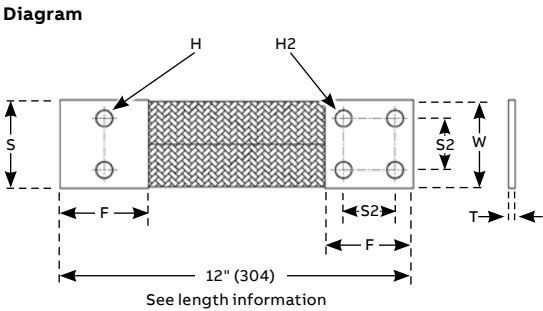


Ordering information:
Length: Standard total lengths are 304 mm (12 in.). If different lengths are required, add your desired length in millimeters at the end of the part number. Ex.: SWC215C2**406** (for 16 in. long)
Plating: Standard ferrules are electro-tin plated. Other options are available; please refer to page D4.

Standard flexible connectors – 4/2-hole NEMA standard

Cat. no.	*Ampacity Δ 65 °C	W in. (mm)	F in. (mm)	S in. (mm)	H in. (mm)	S2 in. (mm)	H2 in. (mm)	T in. (mm)	Weight lb (g)
SWC130C1	1,300	3 (76.2)	3 (76.2)	1¾ (44.4)	⅞ (14.3)	1¾ (44.4)	⅞ (14.3)	¼ (6.3)	1.97 (894)
SWC130C2	1,300	3 (76.2)	3 (76.2)	1½ (38.1)	⅞ (11.1)	1¾ (44.4)	⅞ (14.3)	¼ (6.3)	1.97 (894)
SWC150C1	1,500	3 (76.2)	3 (76.2)	1¾ (44.4)	⅞ (14.3)	1¾ (44.4)	⅞ (14.3)	⅝ (8)	2.67 (1,211)
SWC150C2	1,500	3 (76.2)	3 (76.2)	1½ (38.1)	⅞ (11.1)	1¾ (44.4)	⅞ (14.3)	⅝ (8)	2.67 (1,211)
SWC215C1	2,150	3 (76.2)	3 (76.2)	1¾ (44.4)	⅞ (14.3)	1¾ (44.4)	⅞ (14.3)	⅝ (9.5)	3.37 (1,529)
SWC215C2	2,150	3 (76.2)	3 (76.2)	1½ (38.1)	⅞ (11.1)	1¾ (44.4)	⅞ (14.3)	⅝ (9.5)	3.37 (1,529)
SWC235C1	2,350	3 (76.2)	3 (76.2)	1¾ (44.4)	⅞ (14.3)	1¾ (44.4)	⅞ (14.3)	½ (12.7)	4.77 (2,164)
SWC235C2	2,350	3 (76.2)	3 (76.2)	1½ (38.1)	⅞ (11.1)	1¾ (44.4)	⅞ (14.3)	½ (12.7)	4.77 (2,164)

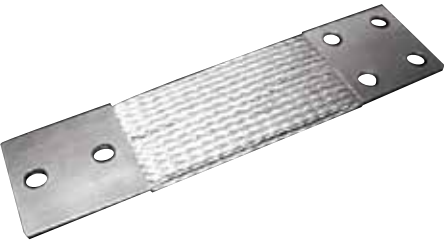
*Temperature rise test per; CEI60694, IEEE / ANSI C37, 34 1994.





SWC series

30 AWG individual strand



Ordering information:

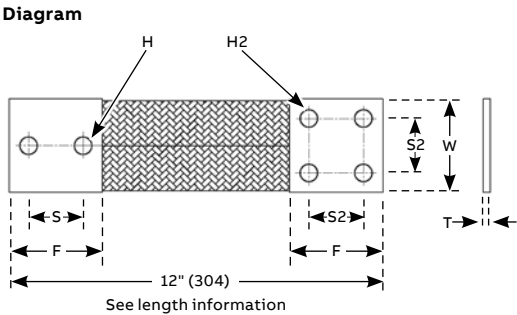
Length: Standard total lengths are 304 mm (12 in.). If different lengths are required, add your desired length in millimeters at the end of the part number. Ex.: SWC150D1**406** (for 16 in. long)

Plating: Standard ferrules are electro-tin plated. Other options are available; please refer to page D4.

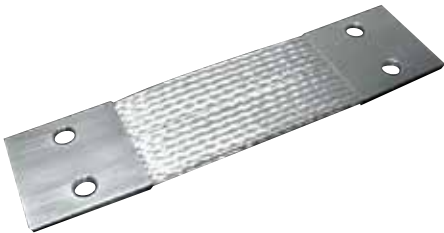
Standard flexible connectors – 4/2-hole NEMA standard

Cat. no.	*Ampacity Δ 65 °C	W in. (mm)	F in. (mm)	S in. (mm)	H in. (mm)	S2 in. (mm)	H2 in. (mm)	T in. (mm)	Weight lb (g)
SWC130D1	1,300	3 (76.2)	3 (76.2)	1¾ (44.4)	⅞ (14.3)	1¾ (44.4)	⅞ (14.3)	¼ (6.3)	1.97 (894)
SWC130D2	1,300	3 (76.2)	3 (76.2)	1½ (38.1)	⅞ (11.1)	1¾ (44.4)	⅞ (14.3)	¼ (6.3)	1.97 (894)
SWC150D1	1,500	3 (76.2)	3 (76.2)	1¾ (44.4)	⅞ (14.3)	1¾ (44.4)	⅞ (14.3)	⅝ (8)	2.67 (1,211)
SWC150D2	1,500	3 (76.2)	3 (76.2)	1½ (38.1)	⅞ (11.1)	1¾ (44.4)	⅞ (14.3)	⅝ (8)	2.67 (1,211)
SWC215D1	2,150	3 (76.2)	3 (76.2)	1¾ (44.4)	⅞ (14.3)	1¾ (44.4)	⅞ (14.3)	⅜ (9.5)	3.37 (1,529)
SWC215D2	2,150	3 (76.2)	3 (76.2)	1½ (38.1)	⅞ (11.1)	1¾ (44.4)	⅞ (14.3)	⅜ (9.5)	3.37 (1,529)
SWC235D1	2,350	3 (76.2)	3 (76.2)	1¾ (44.4)	⅞ (14.3)	1¾ (44.4)	⅞ (14.3)	½ (12.7)	4.77 (2,164)
SWC235D2	2,350	3 (76.2)	3 (76.2)	1½ (38.1)	⅞ (11.1)	1¾ (44.4)	⅞ (14.3)	½ (12.7)	4.77 (2,164)

*Temperature rise test per; CEI60694, IEEE / ANSI C37, 34 1994.



SWC series
30 AWG individual strand

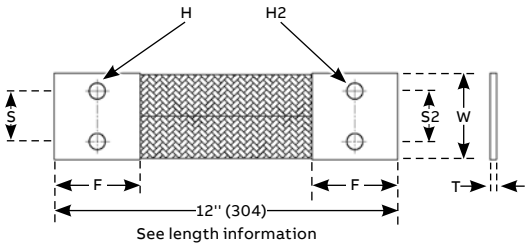


Ordering information:
Length: Standard total lengths are 304 mm (12 in.). If different lengths are required, add your desired length in millimeters at the end of the part number. Ex.: SWC150E1406 (for 16 in. long)
Plating: Standard ferrules are electro-tin plated. Other options are available; please refer to page D4.

Standard flexible connectors – 2/2-hole NEMA standard

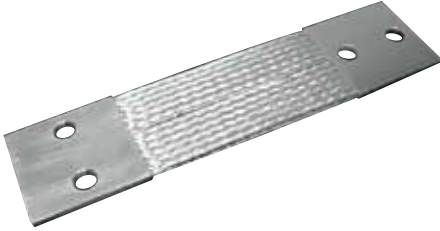
Cat. no.	*Ampacity Δ 65 °C	W in. (mm)	F in. (mm)	S in. (mm)	H in. (mm)	S2 in. (mm)	H2 in. (mm)	T in. (mm)	Weight lb (g)
SWC130E1	1,300	3 (76.2)	3 (76.2)	1¾ (44.4)	⅜ (14.3)	1¾ (44.4)	⅜ (14.3)	¼ (6.3)	2.00 (907)
SWC130E2	1,300	3 (76.2)	3 (76.2)	1¾ (44.4)	⅜ (14.3)	1½ (38.1)	⅞ (11.1)	¼ (6.3)	2.00 (907)
SWC130E3	1,300	3 (76.2)	3 (76.2)	1½ (38.1)	⅞ (11.1)	1½ (38.1)	⅞ (11.1)	¼ (6.3)	2.00 (907)
SWC150E1	1,500	3 (76.2)	3 (76.2)	1¾ (44.4)	⅜ (14.3)	1¾ (44.4)	⅜ (14.3)	⅝ (8)	2.72 (1,234)
SWC150E2	1,500	3 (76.2)	3 (76.2)	1¾ (44.4)	⅜ (14.3)	1½ (38.1)	⅞ (11.1)	⅝ (8)	2.72 (1,234)
SWC150E3	1,500	3 (76.2)	3 (76.2)	1½ (38.1)	⅞ (11.1)	1½ (38.1)	⅞ (11.1)	⅝ (8)	2.72 (1,234)
SWC215E1	2,150	3 (76.2)	3 (76.2)	1¾ (44.4)	⅜ (14.3)	1¾ (44.4)	⅜ (14.3)	⅜ (9.5)	3.43 (1,556)
SWC215E2	2,150	3 (76.2)	3 (76.2)	1¾ (44.4)	⅜ (14.3)	1½ (38.1)	⅞ (11.1)	⅜ (9.5)	3.43 (1,556)
SWC215E3	2,150	3 (76.2)	3 (76.2)	1½ (38.1)	⅞ (11.1)	1½ (38.1)	⅞ (11.1)	⅜ (9.5)	3.43 (1,556)
SWC235E1	2,350	3 (76.2)	3 (76.2)	1¾ (44.4)	⅜ (14.3)	1¾ (44.4)	⅜ (14.3)	½ (12.7)	4.85 (2,200)
SWC235E2	2,350	3 (76.2)	3 (76.2)	1¾ (44.4)	⅜ (14.3)	1½ (38.1)	⅞ (11.1)	½ (12.7)	4.85 (2,200)
SWC235E3	2,350	3 (76.2)	3 (76.2)	1½ (38.1)	⅞ (11.1)	1½ (38.1)	⅞ (11.1)	½ (12.7)	4.85 (2,200)

Diagram



SWC series

30 AWG individual strand



Ordering information:

Length: Standard total lengths are 304 mm (12 in.). If different lengths are required, add your desired length in millimeters at the end of the part number. Ex.: SWC150F1406 (for 16 in. long)

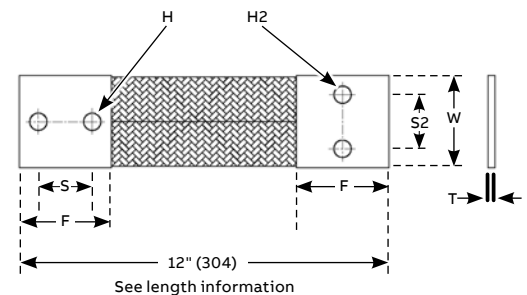
Plating: Standard ferrules are electro-tin plated. Other options are available; please refer to page D4.

Standard flexible connectors – 2/2-hole NEMA standard

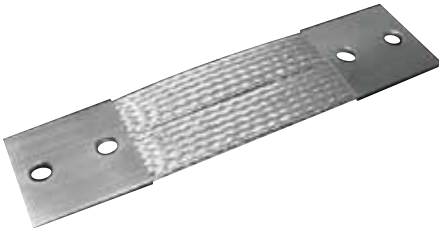
Cat. no.	*Ampacity Δ 65 °C	W in. (mm)	F in. (mm)	S in. (mm)	H in. (mm)	S2 in. (mm)	H2 in. (mm)	T in. (mm)	Weight lb (g)
SWC130F1	1,300	3 (76.2)	3 (76.2)	1¾ (44.4)	⅝ (14.3)	1¾ (44.4)	⅝ (14.3)	¼ (6.3)	2.00 (907)
SWC130F2	1,300	3 (76.2)	3 (76.2)	1¾ (44.4)	⅝ (14.3)	1½ (38.1)	⅞ (11.1)	¼ (6.3)	2.00 (907)
SWC130F3	1,300	3 (76.2)	3 (76.2)	1½ (38.1)	⅞ (11.1)	1½ (38.1)	⅞ (11.1)	¼ (6.3)	2.00 (907)
SWC150F1	1,500	3 (76.2)	3 (76.2)	1¾ (44.4)	⅝ (14.3)	1¾ (44.4)	⅝ (14.3)	⅝ (8)	2.72 (1,234)
SWC150F2	1,500	3 (76.2)	3 (76.2)	1¾ (44.4)	⅝ (14.3)	1½ (38.1)	⅞ (11.1)	⅝ (8)	2.72 (1,234)
SWC150F3	1,500	3 (76.2)	3 (76.2)	1½ (38.1)	⅞ (11.1)	1½ (38.1)	⅞ (11.1)	⅝ (8)	2.72 (1,234)
SWC215F1	2,150	3 (76.2)	3 (76.2)	1¾ (44.4)	⅝ (14.3)	1¾ (44.4)	⅝ (14.3)	⅝ (9.5)	3.43 (1,556)
SWC215F2	2,150	3 (76.2)	3 (76.2)	1¾ (44.4)	⅝ (14.3)	1½ (38.1)	⅞ (11.1)	⅝ (9.5)	3.43 (1,556)
SWC215F3	2,150	3 (76.2)	3 (76.2)	1½ (38.1)	⅞ (11.1)	1½ (38.1)	⅞ (11.1)	⅝ (9.5)	3.43 (1,556)
SWC235F1	2,350	3 (76.2)	3 (76.2)	1¾ (44.4)	⅝ (14.3)	1¾ (44.4)	⅝ (14.3)	½ (12.7)	4.85 (2,200)
SWC235F2	2,350	3 (76.2)	3 (76.2)	1¾ (44.4)	⅝ (14.3)	1½ (38.1)	⅞ (11.1)	½ (12.7)	4.85 (2,200)
SWC235F3	2,350	3 (76.2)	3 (76.2)	1½ (38.1)	⅞ (11.1)	1½ (38.1)	⅞ (11.1)	½ (12.7)	4.85 (2,200)

*Temperature rise test per; CEI60694, IEEE / ANSI C37, 34 1994.

Diagram



SWC series
30 AWG individual strand



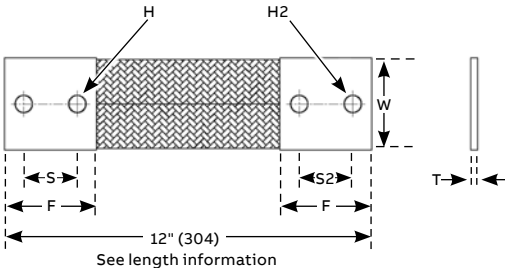
Ordering information:
Length: Standard total lengths are 304 mm (12 in.). If different lengths are required, add your desired length in millimeters at the end of the part number. Ex.: SWC130G1406 (for 16 in. long)
Plating: Standard ferrules are electro-tin plated. Other options are available; please refer to page D4.

Standard flexible connectors – 2/2-hole NEMA standard

Cat. no.	*Ampacity Δ 65 °C	W in. (mm)	F in. (mm)	S in. (mm)	H in. (mm)	S2 in. (mm)	H2 in. (mm)	T in. (mm)	Weight lb (g)
SWC130G1	1,300	3 (76.2)	3 (76.2)	1¼ (44.4)	⅜ (14.3)	1¼ (44.4)	⅜ (14.3)	¼ (6.3)	2.00 (907)
SWC130G2	1,300	3 (76.2)	3 (76.2)	1¼ (44.4)	⅜ (14.3)	1½ (38.1)	⅞ (11.1)	¼ (6.3)	2.00 (907)
SWC130G3	1,300	3 (76.2)	3 (76.2)	1½ (38.1)	⅞ (11.1)	1½ (38.1)	⅞ (11.1)	¼ (6.3)	2.00 (907)
SWC150G1	1,500	3 (76.2)	3 (76.2)	1¼ (44.4)	⅜ (14.3)	1¼ (44.4)	⅜ (14.3)	⅝ (8)	2.72 (1,234)
SWC150G2	1,500	3 (76.2)	3 (76.2)	1¼ (44.4)	⅜ (14.3)	1½ (38.1)	⅞ (11.1)	⅝ (8)	2.72 (1,234)
SWC150G3	1,500	3 (76.2)	3 (76.2)	1½ (38.1)	⅞ (11.1)	1½ (38.1)	⅞ (11.1)	⅝ (8)	2.72 (1,234)
SWC215G1	2,150	3 (76.2)	3 (76.2)	1¼ (44.4)	⅜ (14.3)	1¼ (44.4)	⅜ (14.3)	⅜ (9.5)	3.43 (1,556)
SWC215G2	2,150	3 (76.2)	3 (76.2)	1¼ (44.4)	⅜ (14.3)	1½ (38.1)	⅞ (11.1)	⅜ (9.5)	3.43 (1,556)
SWC215G3	2,150	3 (76.2)	3 (76.2)	1½ (38.1)	⅞ (11.1)	1½ (38.1)	⅞ (11.1)	⅜ (9.5)	3.43 (1,556)
SWC235G1	2,350	3 (76.2)	3 (76.2)	1¼ (44.4)	⅜ (14.3)	1¼ (44.4)	⅜ (14.3)	½ (12.7)	4.85 (2,200)
SWC235G2	2,350	3 (76.2)	3 (76.2)	1¼ (44.4)	⅜ (14.3)	1½ (38.1)	⅞ (11.1)	½ (12.7)	4.85 (2,200)
SWC235G3	2,350	3 (76.2)	3 (76.2)	1½ (38.1)	⅞ (11.1)	1½ (38.1)	⅞ (11.1)	½ (12.7)	4.85 (2,200)

*Temperature rise test per; CEI60694, IEEE / ANSI C37, 34 1994.

Diagram



SWC series

30 AWG individual strand



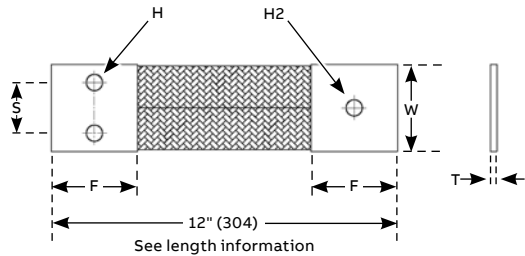
Ordering information:
Length: Standard total lengths are 304 mm (12 in.). If different lengths are required, add your desired length in millimeters at the end of the part number. Ex.: SWC130H1**406** (for 16 in. long)
Plating: Standard ferrules are electro-tin plated. Other options are available; please refer to page D4.

Standard flexible connectors – 2/1-hole NEMA standard

Cat. no.	*Ampacity Δ 65 °C	W in. (mm)	F in. (mm)	S in. (mm)	H in. (mm)	H2 in. (mm)	T in. (mm)	Weight lb (g)
SWC130H1	1,300	3 (76.2)	3 (76.2)	1¼ (44.4)	⅝ (14.3)	⅝ (14.3)	¼ (6.3)	2.03 (921)
SWC130H2	1,300	3 (76.2)	3 (76.2)	1½ (38.1)	⅞ (11.1)	⅝ (14.3)	¼ (6.3)	2.03 (921)
SWC150H1	1,500	3 (76.2)	3 (76.2)	1¼ (44.4)	⅝ (14.3)	⅝ (14.3)	⅝ (8)	2.74 (1,243)
SWC150H2	1,500	3 (76.2)	3 (76.2)	1½ (38.1)	⅞ (11.1)	⅝ (14.3)	⅝ (8)	2.74 (1,243)
SWC215H1	2,150	3 (76.2)	3 (76.2)	1¼ (44.4)	⅝ (14.3)	⅝ (14.3)	⅜ (9.5)	3.46 (1,569)
SWC215H2	2,150	3 (76.2)	3 (76.2)	1½ (38.1)	⅞ (11.1)	⅝ (14.3)	⅜ (9.5)	3.46 (1,569)
SWC235H1	2,350	3 (76.2)	3 (76.2)	1¼ (44.4)	⅝ (14.3)	⅝ (14.3)	½ (12.7)	4.87 (2,209)
SWC235H2	2,350	3 (76.2)	3 (76.2)	1½ (38.1)	⅞ (11.1)	⅝ (14.3)	½ (12.7)	4.87 (2,209)

*Temperature rise test per; CEI60694, IEEE / ANSI C37, 34 1994.

Diagram



SWC series

30 AWG individual strand



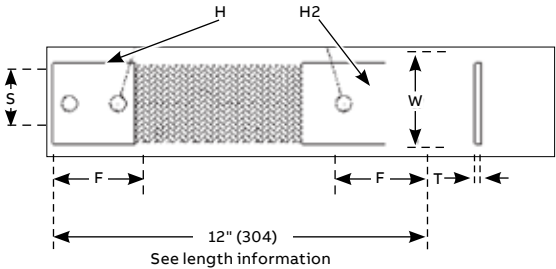
Ordering information:
Length: Standard total lengths are 304 mm (12 in.). If different lengths are required, add your desired length in millimeters at the end of the part number. Ex.: SWC130J1**406** (for 16 in. long)
Plating: Standard ferrules are electro-tin plated. Other options are available; please refer to page D4.

Standard flexible connectors – 2/1-hole NEMA standard

Cat. no.	*Ampacity Δ 65 °C	W in. (mm)	F in. (mm)	S in. (mm)	H in. (mm)	H2 in. (mm)	T in. (mm)	Weight lb (g)
SWC130J1	1,300	3 (76.2)	3 (76.2)	1¼ (44.4)	⅞ (14.3)	⅞ (14.3)	¼ (6.3)	2.03 (921)
SWC130J2	1,300	3 (76.2)	3 (76.2)	1½ (38.1)	⅞ (11.1)	⅞ (14.3)	¼ (6.3)	2.03 (921)
SWC150J1	1,500	3 (76.2)	3 (76.2)	1¼ (44.4)	⅞ (14.3)	⅞ (14.3)	⅝ (8)	2.74 (1,243)
SWC150J2	1,500	3 (76.2)	3 (76.2)	1½ (38.1)	⅞ (11.1)	⅞ (14.3)	⅝ (8)	2.74 (1,243)
SWC215J1	2,150	3 (76.2)	3 (76.2)	1¼ (44.4)	⅞ (14.3)	⅞ (14.3)	⅜ (9.5)	3.46 (1,569)
SWC215J2	2,150	3 (76.2)	3 (76.2)	1½ (38.1)	⅞ (11.1)	⅞ (14.3)	⅜ (9.5)	3.46 (1,569)
SWC235J1	2,350	3 (76.2)	3 (76.2)	1¼ (44.4)	⅞ (14.3)	⅞ (14.3)	½ (12.7)	4.87 (2,209)
SWC235J2	2,350	3 (76.2)	3 (76.2)	1½ (38.1)	⅞ (11.1)	⅞ (14.3)	½ (12.7)	4.87 (2,209)

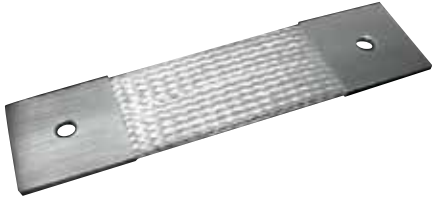
*Temperature rise test per; CEI60694, IEEE / ANSI C37, 34 1994.

Diagram



SWC series

30 AWG individual strand



Ordering information:

Length: Standard total lengths are 304 mm (12 in.). If different lengths are required, add your desired length in millimeters at the end of the part number. Ex.: SWC130K1406 (for 16 in. long)

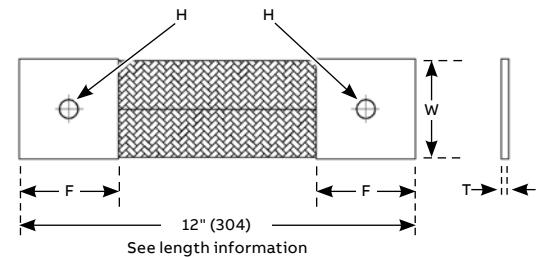
Plating: Standard ferrules are electro-tin plated. Other options are available; please refer to page D4.

Standard flexible connectors – 1/1-hole NEMA standard

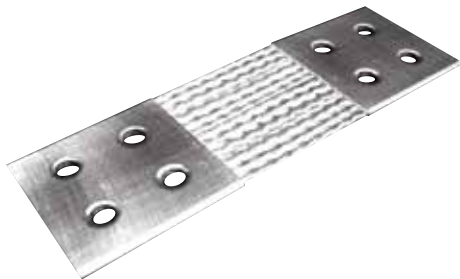
Cat. no.	*Ampacity Δ 65 °C	W in. (mm)	F in. (mm)	H in. (mm)	T in. (mm)	Weight lb (g)
SWC060K1	600	2 (50.8)	2 (50.8)	9/16 (14.3)	1/4 (6.3)	1.84 (835)
SWC060K2	600	2 (50.8)	2 (50.8)	7/16 (11.1)	1/4 (6.3)	1.84 (835)
SWC130K1	1,300	3 (76.2)	3 (76.2)	9/16 (14.3)	1/4 (6.3)	2.04 (925)
SWC130K2	1,300	2 (50.8)	2 (50.8)	9/16 (14.3)	1/2 (12.7)	2.53 (1,148)
SWC140K1	1,400	2 (50.8)	2 (50.8)	7/16 (11.1)	1/2 (12.7)	2.53 (1,148)
SWC150K1	1,500	3 (76.2)	3 (76.2)	9/16 (14.3)	5/16 (8)	2.77 (1,256)
SWC160K1	1,600	4 (101.6)	4 (101.6)	9/16 (14.3)	1/4 (6.3)	2.99 (1,356)
SWC215K1	2,150	3 (76.2)	3 (76.2)	9/16 (14.3)	3/8 (9.5)	3.46 (1,569)
SWC235K1	2,350	3 (76.2)	3 (76.2)	9/16 (14.3)	1/2 (12.7)	4.93 (2,236)

*Temperature Rise test per: CEI60694, IEEE / ANSI C37, 34 1994

Diagram



SWD series
30 AWG individual strand



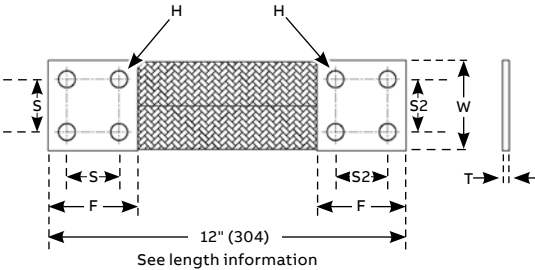
Ordering information:
Length: Standard total lengths are 304 mm (12 in.). If different lengths are required, add your desired length in millimeters at the end of the part number. Ex.: SWD160A1406 (for 16 in. long)
Plating: Standard ferrules are electro-tin plated. Other options are available; please refer to page D4.

Standard flexible connectors – 4-hole NEMA standard

Cat. no.	*Ampacity Δ 65 °C	W in. (mm)	F in. (mm)	S in. (mm)	H in. (mm)	S2 in. (mm)	T in. (mm)	Weight lb (g)
SWD160A1	1,600	4 (101.6)	4 (101.6)	1¾ (44.4)	⅝ (14.3)	1¾ (44.4)	¼ (6.3)	2.54 (1,152)
SWD160A2	1,600	4 (101.6)	4 (101.6)	1¾ (44.4)	⅝ (14.3)	2 (50.8)	¼ (6.3)	2.54 (1,152)
SWD160A3	1,600	4 (101.6)	4 (101.6)	2 (50.8)	⅝ (14.3)	2 (50.8)	¼ (6.3)	2.54 (1,152)
SWD190A1	1,900	4¾ (120.6)	4 (101.6)	1¾ (44.4)	⅝ (14.3)	1¾ (44.4)	¼ (6.3)	3.44 (1,560)
SWD190A2	1,900	4¾ (120.6)	4 (101.6)	1¾ (44.4)	⅝ (14.3)	2 (50.8)	¼ (6.3)	3.44 (1,560)
SWD190A3	1,900	4¾ (120.6)	4 (101.6)	2 (50.8)	⅝ (14.3)	2 (50.8)	¼ (6.3)	3.44 (1,560)
SWD210A1	2,100	4 (101.6)	4 (101.6)	1¾ (44.4)	⅝ (14.3)	1¾ (44.4)	⅜ (9.5)	4.10 (1,860)
SWD210A2	2,100	4 (101.6)	4 (101.6)	1¾ (44.4)	⅝ (14.3)	2 (50.8)	⅜ (9.5)	4.10 (1,860)
SWD210A3	2,100	4 (101.6)	4 (101.6)	2 (50.8)	⅝ (14.3)	2 (50.8)	⅜ (9.5)	4.10 (1,860)

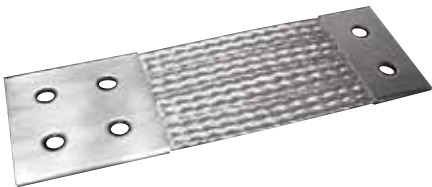
*Temperature rise test per; CEI60694, IEEE / ANSI C37, 34 1994.

Diagram



SWD series

30 AWG individual strand



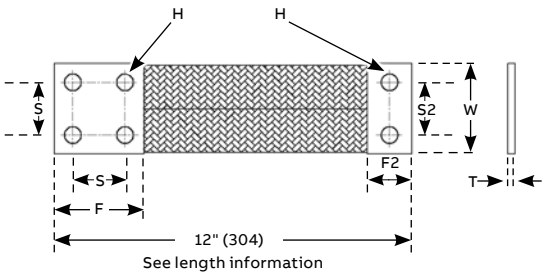
Ordering information:
Length: Standard total lengths are 304 mm (12 in.). If different lengths are required, add your desired length in millimeters at the end of the part number. Ex.: SWD160C**1406** (for 16 in. long)
Plating: Standard ferrules are electro-tin plated. Other options are available; please refer to page D4.

Standard flexible connectors – 4/2-hole NEMA standard

Cat. no.	*Ampacity Δ 65 °C	W in. (mm)	F in. (mm)	S in. (mm)	H in. (mm)	F2 in. (mm)	S2 in. (mm)	T in. (mm)	Weight lb (g)
SWD160C1	1,600	4 (101.6)	4 (101.6)	1¾ (44.4)	⅞ (14.3)	2 (50.8)	1¾ (44.4)	¼ (6.3)	2.27 (1,030)
SWD160C2	1,600	4 (101.6)	4 (101.6)	1¾ (44.4)	⅞ (14.3)	2 (50.8)	2 (50.8)	¼ (6.3)	2.27 (1,030)
SWD160C3	1,600	4 (101.6)	4 (101.6)	2 (50.8)	⅞ (14.3)	2 (50.8)	2 (50.8)	¼ (6.3)	2.27 (1,030)
SWD190C1	1,900	4¾ (120.6)	4 (101.6)	1¾ (44.4)	⅞ (14.3)	2 (50.8)	1¾ (44.4)	¼ (6.3)	3.04 (1,379)
SWD190C2	1,900	4¾ (120.6)	4 (101.6)	1¾ (44.4)	⅞ (14.3)	2 (50.8)	2 (50.8)	¼ (6.3)	3.04 (1,379)
SWD190C3	1,900	4¾ (120.6)	4 (101.6)	2 (50.8)	⅞ (14.3)	2 (50.8)	2 (50.8)	¼ (6.3)	3.04 (1,379)
SWD210C1	2,100	4 (101.6)	4 (101.6)	1¾ (44.4)	⅞ (14.3)	2 (50.8)	1¾ (44.4)	⅜ (9.5)	3.81 (1,728)
SWD210C2	2,100	4 (101.6)	4 (101.6)	1¾ (44.4)	⅞ (14.3)	2 (50.8)	2 (50.8)	⅜ (9.5)	3.81 (1,728)
SWD210C3	2,100	4 (101.6)	4 (101.6)	2 (50.8)	⅞ (14.3)	2 (50.8)	2 (50.8)	⅜ (9.5)	3.81 (1,728)

*Temperature rise test per; CEI60694, IEEE / ANSI C37, 34 1994.

Diagram



SWD series

30 AWG individual strand



Ordering information:

Length: Standard total lengths are 304 mm (12 in.). If different lengths are required, add your desired length in millimeters at the end of the part number. Ex.: SWD160D1**406** (for 16 in. long)

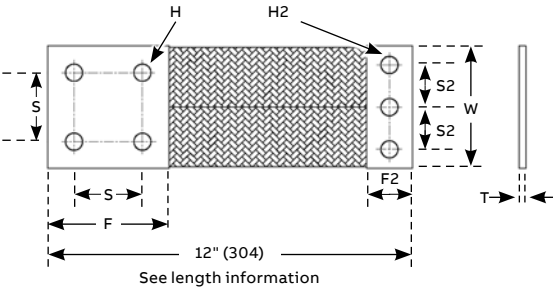
Plating: Standard ferrules are electro-tin plated. Other options are available; please refer to page D4.

Standard flexible connectors – 4/3-hole NEMA standard

Cat. no.	*Ampacity Δ 65 °C	W in. (mm)	F in. (mm)	S in. (mm)	H in. (mm)	F2 in. (mm)	S2 in. (mm)	H2 in. (mm)	T in. (mm)	Weight lb (g)
SWD160D1	1,600	4 (101.6)	4 (101.6)	1¼ (44.4)	⅝ (14.3)	2 (50.8)	1½ (38.1)	⅝ (14.3)	¼ (6.3)	2.25 (1,021)
SWD160D2	1,600	4 (101.6)	4 (101.6)	1¼ (44.4)	⅝ (14.3)	2 (50.8)	1¼ (31.7)	⅞ (11.1)	¼ (6.3)	2.25 (1,021)
SWD160D3	1,600	4 (101.6)	4 (101.6)	2 (50.8)	⅝ (14.3)	2 (50.8)	1½ (38.1)	⅝ (14.3)	¼ (6.3)	2.25 (1,021)
SWD190D1	1,900	4¾ (120.6)	4 (101.6)	1¼ (44.4)	⅝ (14.3)	2 (50.8)	1½ (38.1)	⅝ (14.3)	¼ (6.3)	3.02 (1,370)
SWD190D2	1,900	4¾ (120.6)	4 (101.6)	1¼ (44.4)	⅝ (14.3)	2 (50.8)	1¼ (31.7)	⅞ (11.1)	¼ (6.3)	3.02 (1,370)
SWD190D3	1,900	4¾ (120.6)	4 (101.6)	2 (50.8)	⅝ (14.3)	2 (50.8)	1½ (38.1)	⅝ (14.3)	¼ (6.3)	3.02 (1,370)
SWD210D1	2,100	3¾ (95.3)	4 (101.6)	1¼ (44.4)	⅝ (14.3)	2 (50.8)	1¼ (31.7)	⅝ (14.3)	⅜ (9.5)	3.02 (1,370)
SWD210D2	2,100	3¾ (95.3)	4 (101.6)	1¼ (44.4)	⅝ (14.3)	2 (50.8)	1¼ (31.7)	⅞ (11.1)	⅜ (9.5)	3.02 (1,370)
SWD210D3	2,100	3¾ (95.3)	4 (101.6)	2 (50.8)	⅝ (14.3)	2 (50.8)	1¼ (31.7)	⅝ (14.3)	⅜ (9.5)	3.02 (1,370)

*Temperature rise test per; CEI60694, IEEE / ANSI C37, 34 1994.

Diagram



SWE/SWF series

30 AWG individual strand



Ordering information:

Length: Standard total lengths are 406 mm (16 in.). If different lengths are required, add your desired length in millimeters at the end of the part number. Ex.: SWF170A1610 (for 24 in. long)

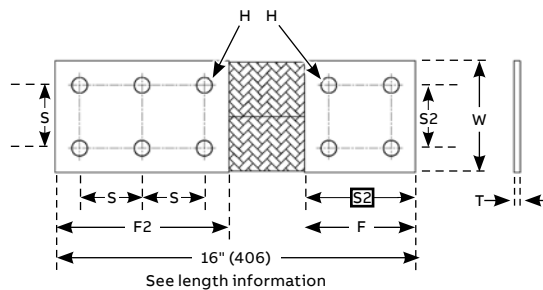
Plating: Standard ferrules are electro-tin plated. Other options are available; please refer to page D4.

Standard flexible connectors – 6/4-hole NEMA standard

Cat. no.	*Ampacity Δ 65 °C	W in. (mm)	F in. (mm)	S in. (mm)	H in. (mm)	F2 in. (mm)	S2 in. (mm)	T in. (mm)	Weight lb (g)
SWE140A1	1,400	3 (76.2)	4 3/4 (120.6)	1 3/4 (44.4)	9/16 (14.3)	3 (76.2)	1 3/4 (44.4)	1/4 (6.3)	2.56 (1161)
SWE160A1	1,600	3 (76.2)	4 3/4 (120.6)	1 3/4 (44.4)	9/16 (14.3)	3 (76.2)	1 3/4 (44.4)	3/8 (9.5)	4.41 (2000)
SWF170A1	1,700	4 (101.6)	5 3/4 (146)	1 3/4 (44.4)	9/16 (14.3)	4 (101.6)	1 3/4 (44.4)	1/4 (6.3)	4.23 (1919)
SWF170A2	1,700	4 (101.6)	6 (152.4)	2 (50.8)	9/16 (14.3)	4 (101.6)	1 3/4 (44.4)	1/4 (6.3)	4.23 (1919)
SWF170A3	1,700	4 (101.6)	6 (152.4)	2 (50.8)	9/16 (14.3)	4 (101.6)	2 (50.8)	1/4 (6.3)	4.23 (1919)
SWF200A1	2,000	4 3/4 (120.6)	5 3/4 (146)	1 3/4 (44.4)	9/16 (14.3)	4 (101.6)	1 3/4 (44.4)	1/4 (6.3)	4.23 (1919)
SWF200A2	2,000	4 3/4 (120.6)	6 (152.4)	2 (50.8)	9/16 (14.3)	4 (101.6)	1 3/4 (44.4)	1/4 (6.3)	4.23 (1919)
SWF200A3	2,000	4 3/4 (120.6)	6 (152.4)	2 (50.8)	9/16 (14.3)	4 (101.6)	2 (50.8)	1/4 (6.3)	4.23 (1919)
SWF230A1	2,300	3 3/4 (95.3)	5 3/4 (146)	1 3/4 (44.4)	9/16 (14.3)	4 (101.6)	1 3/4 (44.4)	3/8 (9.5)	6.08 (2758)
SWF230A2	2,300	3 3/4 (95.3)	6 (152.4)	2 (50.8)	9/16 (14.3)	4 (101.6)	1 3/4 (44.4)	3/8 (9.5)	6.08 (2758)
SWF230A3	2,300	3 3/4 (95.3)	6 (152.4)	2 (50.8)	9/16 (14.3)	4 (101.6)	2 (50.8)	3/8 (9.5)	6.08 (2758)

*Temperature rise test per: CEI60694, IEEE / ANSI C37, 34 1994.

Diagram



SWE/SWF series
30 AWG individual strand



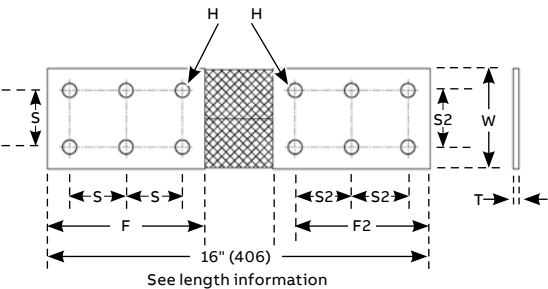
Ordering information:
Length: Standard total lengths are 406 mm (16 in.). If different lengths are required, add your desired length in millimeters at the end of the part number. Ex.: SWF160B1610 (for 24 in. long)
Plating: Standard ferrules are electro-tin plated. Other options are available; please refer to page D4.

Standard flexible connectors – 6/6-hole NEMA standard

Cat. no.	*Ampacity Δ 65 °C	W in. (mm)	F in. (mm)	S in. (mm)	H in. (mm)	F2 in. (mm)	S2 in. (mm)	T in. (mm)	Weight lb (g)
SWE140B1	1,400	3 (76.2)	4¾ (120.6)	1¾ (44.4)	⅝ (14.3)	4¾ (120.6)	1¾ (44.4)	¼ (6.3)	2.70 (1,225)
SWE160B1	1,600	3 (76.2)	4¾ (120.6)	1¾ (44.4)	⅝ (14.3)	4¾ (120.6)	1¾ (44.4)	⅜ (9.5)	4.53 (2,055)
SWF170B1	1,700	4 (101.6)	5¾ (146)	1¾ (44.4)	⅝ (14.3)	5¾ (146)	1¾ (44.4)	¼ (6.3)	4.50 (2,041)
SWF170B2	1,700	4 (101.6)	6 (152.4)	2 (50.8)	⅝ (14.3)	5¾ (146)	1¾ (44.4)	¼ (6.3)	4.50 (2,041)
SWF170B3	1,700	4 (101.6)	6 (152.4)	2 (50.8)	⅝ (14.3)	6 (152.4)	2 (50.8)	¼ (6.3)	4.50 (2,041)
SWF200B1	2,000	4¾ (120.6)	5¾ (146)	1¾ (44.4)	⅝ (14.3)	5¾ (146)	1¾ (44.4)	¼ (6.3)	6.26 (2,840)
SWF200B2	2,000	4¾ (120.6)	6 (152.4)	2 (50.8)	⅝ (14.3)	5¾ (146)	1¾ (44.4)	¼ (6.3)	6.26 (2,840)
SWF200B3	2,000	4¾ (120.6)	6 (152.4)	2 (50.8)	⅝ (14.3)	6 (152.4)	2 (50.8)	¼ (6.3)	6.26 (2,840)
SWF230B1	2,300	3¾ (95.3)	5¾ (146)	1¾ (44.4)	⅝ (14.3)	5¾ (146)	1¾ (44.4)	⅜ (9.5)	6.33 (2,871)
SWF230B2	2,300	3¾ (95.3)	6 (152.4)	2 (50.8)	⅝ (14.3)	5¾ (146)	1¾ (44.4)	⅜ (9.5)	6.33 (2,871)
SWF230B3	2,300	3¾ (95.3)	6 (152.4)	2 (50.8)	⅝ (14.3)	6 (152.4)	2 (50.8)	⅜ (9.5)	6.33 (2,871)

*Temperature rise test per; CEI60694, IEEE / ANSI C37, 34 1994.

Diagram





LTL series

30 AWG individual strand



Ordering information:

Length: Standard total lengths are 457 mm (18 in.). If different lengths are required, add your desired length in millimeters at the end of the part number. Ex.: LTL250A1610 (for 24 in. long)

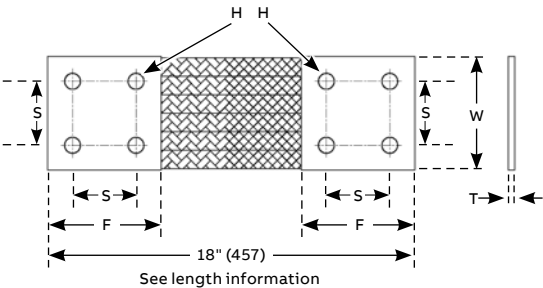
Plating: Standard ferrules are electro-tin plated. Other options are available; please refer to page D4.

Standard flexible connectors – 4/4-hole

Cat. no.	*Ampacity Δ 65 °C	W in. (mm)	F in. (mm)	S in. (mm)	H in. (mm)	T in. (mm)	Weight lb (g)
LTL250A1	2,500**	6⅜ (162)	6 (152.4)	2 (50.8)	1⅜ (18)	¼ (6.3)	7.20 (3,266)
LTL300A1	3,000**	6 (152.4)	6 (152.4)	2 (50.8)	1⅜ (18)	⅜ (9.5)	9.86 (4,472)
LTL400A1	4,000**	6 (152.4)	6 (152.4)	2 (50.8)	1⅜ (18)	½ (12.7)	13.07 (5,929)

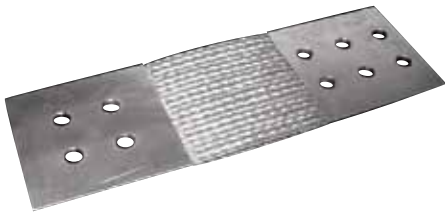
*Temperature rise test per; CEI60694, IEEE / ANSI C37, 34 1994.
** For ampacity over 2,500 please contact your inside sale representative

Diagram



LTL series

30 AWG individual strand



Ordering information:

Length: Standard total lengths are 457 mm (18 in.). If different lengths are required, add your desired length in millimeters at the end of the part number. Ex.: LTL300B1**610** (for 24 in. long)

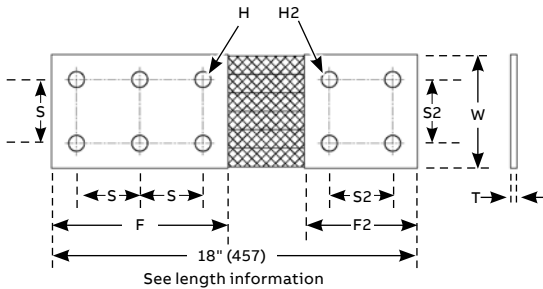
Plating: Standard ferrules are electro-tin plated. Other options are available; please refer to page D4.

Standard flexible connectors – 6/4-hole

Cat. no.	*Ampacity Δ 65 °C	W in. (mm)	F in. (mm)	S in. (mm)	H in. (mm)	F2 in. (mm)	S2 in. (mm)	H2 in. (mm)	T in. (mm)	Weight lb (g)
LTL250B1	2,500**	6⅞ (162)	6 (152.4)	2 (50.8)	1⅞ (18)	6 (152.4)	2 (50.8)	1⅞ (18)	¼ (6.3)	7.24 (3,284)
LTL250B2	2,500**	6⅞ (162)	5½ (140)	1¾ (44.4)	⅞ (14.3)	6 (152.4)	2 (50.8)	1⅞ (18)	¼ (6.3)	7.24 (3,284)
LTL300B1	3,000**	6 (152.4)	6 (152.4)	2 (50.8)	1⅞ (18)	6 (152.4)	2 (50.8)	1⅞ (18)	⅜ (9.5)	9.92 (4,500)
LTL300B2	3,000**	6 (152.4)	5½ (140)	1¾ (44.4)	⅞ (14.3)	6 (152.4)	2 (50.8)	1⅞ (18)	⅜ (9.5)	9.92 (4,500)
LTL400B1	4,000**	6 (152.4)	6 (152.4)	2 (50.8)	1⅞ (18)	6 (152.4)	2 (50.8)	1⅞ (18)	½ (12.7)	13.15 (5,965)
LTL400B2	4,000**	6 (152.4)	5½ (140)	1¾ (44.4)	⅞ (14.3)	6 (152.4)	2 (50.8)	1⅞ (18)	½ (12.7)	13.15 (5,965)

*Temperature rise test per; CEI60694, IEEE / ANSI C37, 34 1994.
** For ampacity over 2,500 please contact your inside sale representative

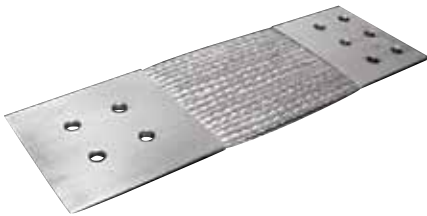
Diagram





LTL series

30 AWG individual strand



Ordering information:

Length: Standard total lengths are 457 mm (18 in.). If different lengths are required, add your desired length in millimeters at the end of the part number. Ex.: LTL300C1**610** (for 24 in. long)

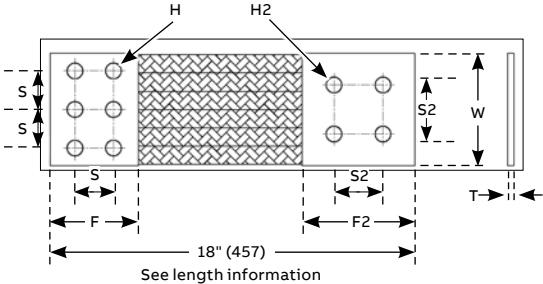
Plating: Standard ferrules are electro-tin plated. Other options are available; please refer to page D4.

Standard flexible connectors – 6/4-hole

Cat. no.	*Ampacity Δ 65 °C	W in. (mm)	F in. (mm)	S in. (mm)	H in. (mm)	S2 in. (mm)	H2 in. (mm)	T in. (mm)	Weight lb (g)
LTL250C1	2,500**	6⅜ (162)	4 (101.6)	2 (50.8)	1⅛ (18)	2 (50.8)	1⅛ (18)	¼ (6.3)	6.58 (2,985)
LTL250C2	2,500**	6⅜ (162)	4 (101.6)	1¾ (44.4)	⅞ (14.3)	2 (50.8)	1⅛ (18)	¼ (6.3)	6.58 (2,985)
LTL300C1	3,000**	6 (152.4)	4 (101.6)	2 (50.8)	1⅛ (18)	2 (50.8)	1⅛ (18)	⅜ (9.5)	9.21 (4,178)
LTL300C2	3,000**	6 (152.4)	4 (101.6)	1¾ (44.4)	⅞ (14.3)	2 (50.8)	1⅛ (18)	⅜ (9.5)	9.21 (4,178)
LTL400C1	4,000**	6 (152.4)	4 (101.6)	2 (50.8)	1⅛ (18)	2 (50.8)	1⅛ (18)	½ (12.7)	12.40 (5,625)
LTL400C2	4,000**	6 (152.4)	4 (101.6)	1¾ (44.4)	⅞ (14.3)	2 (50.8)	1⅛ (18)	½ (12.7)	12.40 (5,625)

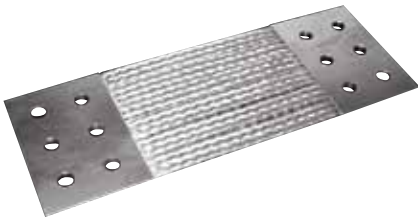
*Temperature rise test per; CEI60694, IEEE / ANSI C37, 34 1994.
** For ampacity over 2,500 please contact your inside sale representative

Diagram



LTL series

30 AWG individual strand



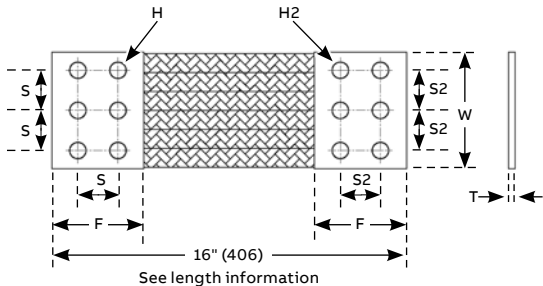
Ordering information:
Length: Standard total lengths are 406 mm (16 in.). If different lengths are required, add your desired length in millimeters at the end of the part number. Ex.: LTL300D1610 (for 24 in. long)
Plating: Standard ferrules are electro-tin plated. Other options are available; please refer to page D4.

Standard flexible connectors – 6/6-hole

Cat. no.	*Ampacity Δ 65 °C	W in. (mm)	F in. (mm)	S in. (mm)	H in. (mm)	S2 in. (mm)	H2 in. (mm)	T in. (mm)	Weight lb (g)
LTL250D1	2,500**	6⅞ (162)	4 (101.6)	2 (50.8)	⅜ (18)	2 (50.8)	⅜ (18)	¼ (6.3)	5.95 (2,699)
LTL250D2	2,500**	6⅞ (162)	4 (101.6)	2 (50.8)	⅜ (18)	1¾ (44.4)	⅞ (14.2)	¼ (6.3)	5.95 (2,699)
LTL250D3	2,500**	6⅞ (162)	4 (101.6)	1¾ (44.4)	⅞ (14.3)	1¾ (44.4)	⅞ (14.2)	¼ (6.3)	5.95 (2,699)
LTL300D1	3,000**	6 (152.4)	4 (101.6)	2 (50.8)	⅜ (18)	2 (50.8)	⅜ (18)	⅝ (9.5)	8.56 (3,883)
LTL300D2	3,000**	6 (152.4)	4 (101.6)	2 (50.8)	⅜ (18)	1¾ (44.4)	⅞ (14.2)	⅝ (9.5)	8.56 (3,883)
LTL300D3	3,000**	6 (152.4)	4 (101.6)	1¾ (44.4)	⅞ (14.3)	1¾ (44.4)	⅞ (14.2)	⅝ (9.5)	8.56 (3,883)
LTL400D1	4,000**	6 (152.4)	4 (101.6)	2 (50.8)	⅜ (18)	2 (50.8)	⅜ (18)	½ (12.7)	11.73 (5,321)
LTL400D2	4,000**	6 (152.4)	4 (101.6)	2 (50.8)	⅜ (18)	1¾ (44.4)	⅞ (14.2)	½ (12.7)	11.73 (5,321)
LTL400D3	4,000**	6 (152.4)	4 (101.6)	1¾ (44.4)	⅞ (14.3)	1¾ (44.4)	⅞ (14.2)	½ (12.7)	11.73 (5,321)

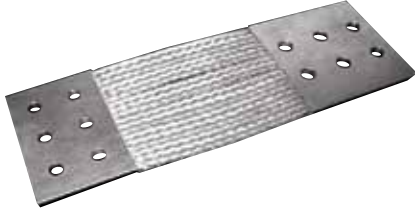
*Temperature rise test per; CEI60694, IEEE / ANSI C37, 34 1994.
** For ampacity over 2,500 please contact your inside sale representative

Diagram



LTL series

30 AWG individual strand



Ordering information:

Length: Standard total lengths are 457 mm (18 in.). If different lengths are required, add your desired length in millimeters at the end of the part number. Ex.: LTL300E1610 (for 24 in. long)

Plating: Standard ferrules are electro-tin plated. Other options are available; please refer to page D4.

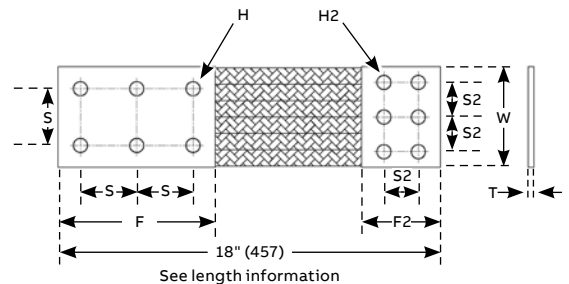
Standard flexible connectors – 6/6-hole

Cat. no.	*Ampacity Δ 65 °C	W in. (mm)	F in. (mm)	S in. (mm)	H in. (mm)	F2 in. (mm)	S2 in. (mm)	H2 in. (mm)	T in. (mm)	Weight lb (g)
LTL250E1	2,500**	6 $\frac{3}{8}$ (162)	6 (152.4)	2 (50.8)	$\frac{11}{16}$ (18)	4 (101.6)	2 (50.8)	$\frac{11}{16}$ (18)	$\frac{1}{4}$ (6.3)	6.53 (2,962)
LTL250E2	2,500**	6 $\frac{3}{8}$ (162)	6 (152.4)	2 (50.8)	$\frac{11}{16}$ (18)	4 (101.6)	1 $\frac{3}{4}$ (44.4)	$\frac{9}{16}$ (14.2)	$\frac{1}{4}$ (6.3)	6.53 (2,962)
LTL250E3	2,500**	6 $\frac{3}{8}$ (162)	5 $\frac{1}{2}$ (140)	1 $\frac{3}{4}$ (44.4)	$\frac{9}{16}$ (14.3)	4 (101.6)	1 $\frac{3}{4}$ (44.4)	$\frac{9}{16}$ (14.2)	$\frac{1}{4}$ (6.3)	6.53 (2,962)
LTL300E1	3,000**	6 (152.4)	6 (152.4)	2 (50.8)	$\frac{11}{16}$ (18)	4 (101.6)	2 (50.8)	$\frac{11}{16}$ (18)	$\frac{3}{8}$ (9.5)	9.15 (4,150)
LTL300E2	3,000**	6 (152.4)	6 (152.4)	2 (50.8)	$\frac{11}{16}$ (18)	4 (101.6)	1 $\frac{3}{4}$ (44.4)	$\frac{9}{16}$ (14.2)	$\frac{3}{8}$ (9.5)	9.15 (4,150)
LTL300E3	3,000**	6 (152.4)	5 $\frac{1}{2}$ (140)	1 $\frac{3}{4}$ (44.4)	$\frac{9}{16}$ (14.3)	4 (101.6)	1 $\frac{3}{4}$ (44.4)	$\frac{9}{16}$ (14.2)	$\frac{3}{8}$ (9.5)	9.15 (4,150)
LTL400E1	4,000**	6 (152.4)	6 (152.4)	2 (50.8)	$\frac{11}{16}$ (18)	4 (101.6)	2 (50.8)	$\frac{11}{16}$ (18)	$\frac{1}{2}$ (12.7)	12.32 (5,588)
LTL400E2	4,000**	6 (152.4)	6 (152.4)	2 (50.8)	$\frac{11}{16}$ (18)	4 (101.6)	1 $\frac{3}{4}$ (44.4)	$\frac{9}{16}$ (14.2)	$\frac{1}{2}$ (12.7)	12.32 (5,588)
LTL400E3	4,000**	6 (152.4)	5 $\frac{1}{2}$ (140)	1 $\frac{3}{4}$ (44.4)	$\frac{9}{16}$ (14.3)	4 (101.6)	1 $\frac{3}{4}$ (44.4)	$\frac{9}{16}$ (14.2)	$\frac{1}{2}$ (12.7)	12.32 (5,588)

*Temperature rise test per; CEI60694, IEEE / ANSI C37, 34 1994.

** For ampacity over 2,500 please contact your inside sale representative

Diagram



LTL series

30 AWG individual strand



Ordering information:

Length: Standard total lengths are 457 mm (18 in.). If different lengths are required, add your desired length in millimeters at the end of the part number. Ex.: LTL250F1610 (for 24 in. long)

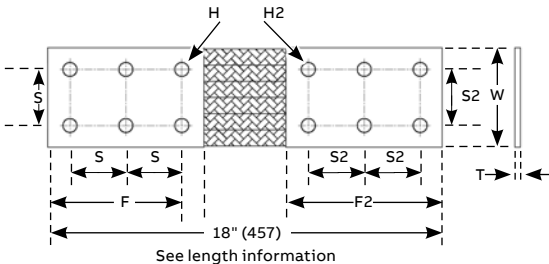
Plating: Standard ferrules are electro-tin plated. Other options are available; please refer to page D4.

Standard flexible connectors – 6/6-hole

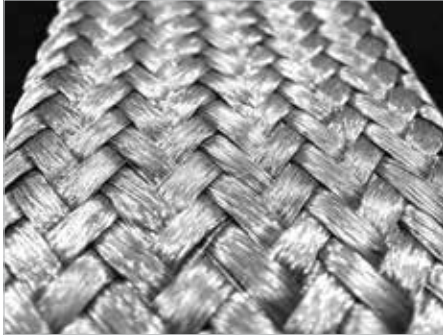
Cat. no.	*Ampacity Δ 65 °C	W in. (mm)	F in. (mm)	S in. (mm)	H in. (mm)	F2 in. (mm)	S2 in. (mm)	H2 in. (mm)	T in. (mm)	Weight lb (g)
LTL250F1	2,500**	6⅞ (162)	6 (152.4)	2 (50.8)	11⁄16 (18)	6 (152.4)	2 (50.8)	11⁄16 (18)	¼ (6.3)	7.12 (3,230)
LTL250F2	2,500**	6⅞ (162)	6 (152.4)	2 (50.8)	11⁄16 (18)	6 (152.4)	1¾ (44.4)	⅝ (14.2)	¼ (6.3)	7.12 (3,230)
LTL250F3	2,500**	6⅞ (162)	5½ (140)	1¾ (44.4)	⅝ (14.3)	5½ (140)	1¾ (44.4)	⅝ (14.2)	¼ (6.3)	7.12 (3,230)
LTL300F1	3,000**	6 (152.4)	6 (152.4)	2 (50.8)	11⁄16 (18)	6 (152.4)	2 (50.8)	11⁄16 (18)	⅜ (9.5)	9.74 (4,418)
LTL300F2	3,000**	6 (152.4)	6 (152.4)	2 (50.8)	11⁄16 (18)	6 (152.4)	1¾ (44.4)	⅝ (14.2)	⅜ (9.5)	9.74 (4,418)
LTL300F3	3,000**	6 (152.4)	5½ (140)	1¾ (44.4)	⅝ (14.3)	5½ (140)	1¾ (44.4)	⅝ (14.2)	⅜ (9.5)	9.74 (4,418)
LTL400F1	4,000**	6 (152.4)	6 (152.4)	2 (50.8)	11⁄16 (18)	6 (152.4)	2 (50.8)	11⁄16 (18)	½ (12.7)	12.91 (5,856)
LTL400F2	4,000**	6 (152.4)	6 (152.4)	2 (50.8)	11⁄16 (18)	5½ (140)	1¾ (44.4)	⅝ (14.2)	½ (12.7)	12.91 (5,856)
LTL400F3	4,000**	6 (152.4)	5½ (140)	1¾ (44.4)	⅝ (14.3)	5½ (140)	1¾ (44.4)	⅝ (14.2)	½ (12.7)	12.91 (5,856)

*Temperature rise test per; CEI60694, IEEE / ANSI C37, 34 1994.
** For ampacity over 2,500 please contact your inside sale representative

Diagram



Flat braided copper cables



Conductors

Strands are soft-drawn bare or tinned copper.

Construction

Strands are woven into a tubular braid and rolled flat.

Application

For bonding, grounding or connecting moving parts.

Specification

ASTM-B33

Assemblies

Factory-installed molded connectors also available.

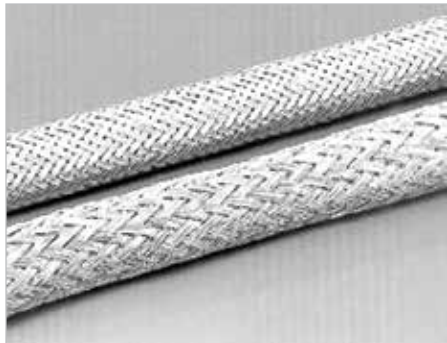
The following listing represents the most popular flat braid constructions used in specialized electrical industry applications. For other constructions, contact an ABB sales representative or your regional ABB sales office.

Cat. no.	AWG size	Circular mil area	Numbers and size of wires (AWG)	Construction	Nominal width (in.)	Nominal thick. (in.)	Approx. weight (lb/m)
FB-4243230-1*	300 kcmil	307,200	3,072 / 30	4 x (24 x 32/30)	1 $\frac{3}{8}$	0.420	1,110
FB-1485230-1	250 kcmil	249,600	2,496 / 30	48 x 52/30	2 $\frac{1}{2}$	0.190	900
FB-3243230-1	4/0	230,400	2,304 / 30	3 x (24 x 32/30)	1 $\frac{3}{4}$	0.375	825
FB-2243230-1	3/0	153,600	1,536 / 30	2 x (24 x 32/30)	1 $\frac{1}{8}$	0.250	560
FBXDRL	1/0	105,600	1,056 / 30	24 x 44/30	1	0.135	365
FB-1482230-1	1/0	105,600	1,056 / 30	48 x 22/30	1 $\frac{3}{8}$	0.120	365
FB-1488436-1	1/0	100,800	4,032 / 36	48 x 84/36	1 $\frac{5}{8}$	0.080	360
FBDRL	1	76,800	768 / 30	24 x 32/30	1	0.125	200
FB-12412036-1	2	72,000	2,880 / 36	24 x 120/36	1	0.135	240
FB-1485036-1	2	60,000	2,400 / 36	48 x 50/36	1 $\frac{1}{4}$	0.090	205
FBCRL	3	48,000	480 / 30	24 x 20/30	$\frac{3}{4}$	0.110	170
FB-1484036-1	3	48,000	1,920 / 36	48 x 40/36	1	0.090	160
FB-1488640-1	4	41,280	4,128 / 40	48 x 86/40	1	0.060	140
FB-1246736-1	4	40,200	1,608 / 36	24 x 67/36	$\frac{3}{4}$	0.090	135
FB-1241630-1	4	38,400	384 / 30	24 x 16/30	$\frac{5}{8}$	0.085	125
FBBRL	6	24,000	210 / 30	24 x 10/30	$\frac{1}{2}$	0.080	83
FB-1244036-1	6	24,000	960 / 36	24 x 40/36	$\frac{1}{2}$	0.090	80
FB-14810644-2	7	20,350	5,088 / 44	48 x 106/44	$\frac{5}{8}$	0.050	68
FB-1480836-1	10	9,600	384 / 36	48 x 8/36	$\frac{1}{2}$	0.030	39
FB-1241636-1	10	9,600	384 / 36	24 x 16/36	$\frac{3}{8}$	0.060	39
FB-1480636-1	12	7,200	288 / 36	48 x 6/36	$\frac{3}{8}$	0.030	28
FB-1481036-1	12	6,000	240 / 36	24 x 10/36	$\frac{1}{4}$	0.030	23

* The suffix «-1» denotes tinned copper braid. For bare copper braid, replace «-1» with «-2».

NOTE: Dimensions shown are only approximate due to the extreme flexibility of braided cables.

Tinned copper tubular braids



Conductors

Strands are soft-drawn bare or tinned copper.

Construction

Strands are woven into a tubular braid.

Application

For bonding, grounding or connecting moving parts.

Specification

ASTM-B33, QQ-B-375

Shield coverage

Braid is formed to maintain coverages of 90% shielding over the nominal diameters specified.

The following listing represents the most popular tubular braid constructions used in today's electrical and electronic industries. For other constructions, contact an ABB sales representative or your regional sales office.

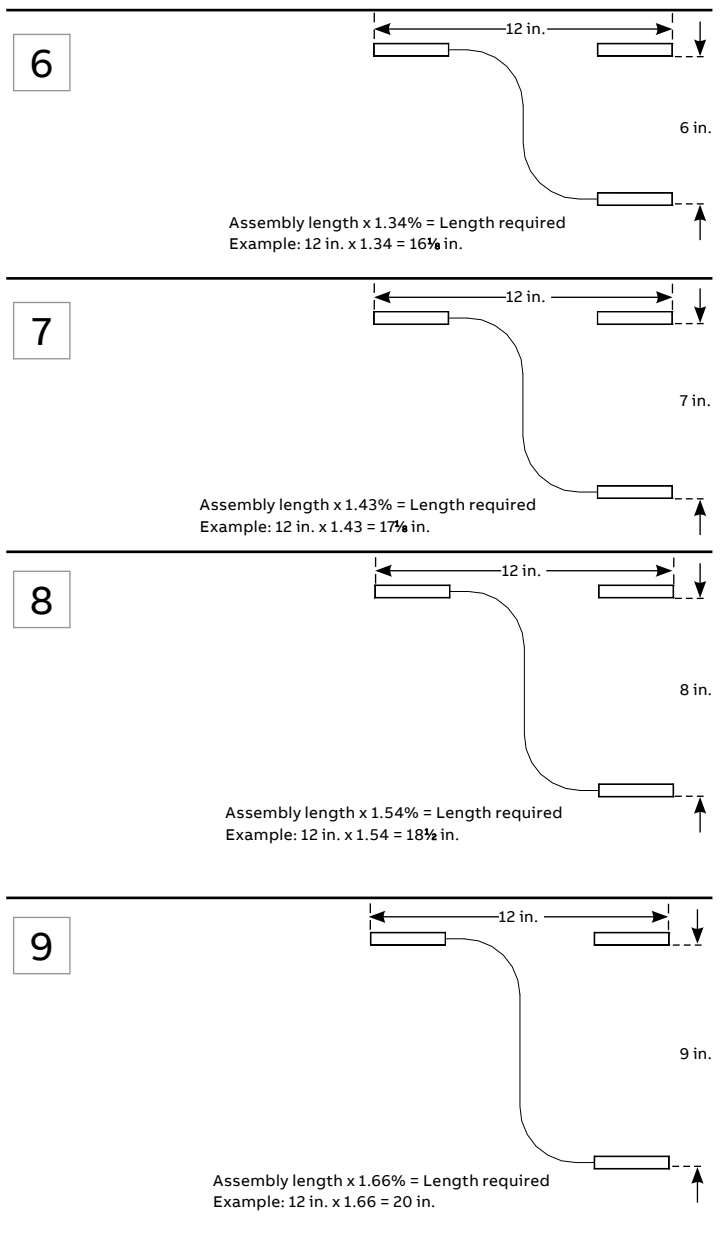
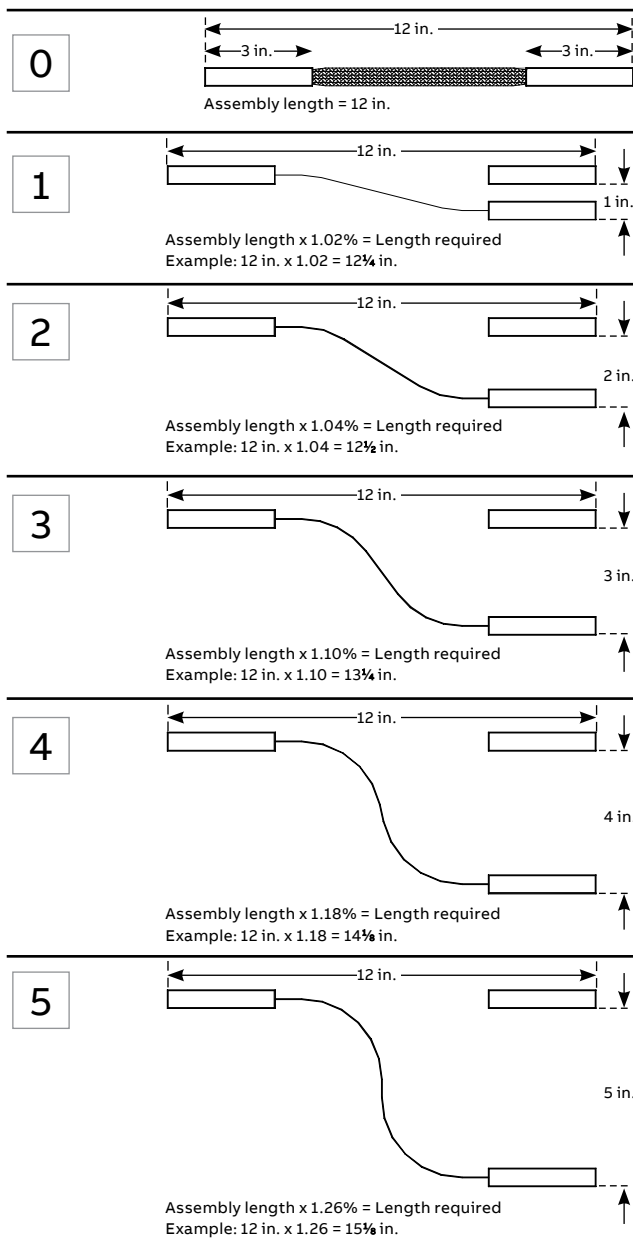
Cat. no.	Nominal I.D. when rounded (in.)	Nominal circular mil area	AWG size equivalent	Number and size of wires (AWG)	Construction	Approx. weight (lb /m)
TB - 481630	2¼	77,180	1	768 / 30	48 x 16 / 30	260
TB - 481430*	2	67,540	2	672 / 30	48 x 14 / 30	230
TB - 481230*	1½	57,890	3	576 / 30	48 x 12 / 30	200
TB - 481130*	1¾	53,060	3	528 / 30	48 x 11 / 30	185
TB - 481030	1¼	48,240	3	480 / 30	48 x 10 / 30	168
TB - 480930*	1⅝	43,420	4	432 / 30	48 x 9 / 30	155
TB - 480830*	1	38,600	4	384 / 30	48 x 8 / 30	140
TB - 480730*	⅞	33,770	5	336 / 30	48 x 7 / 30	123
TB - 481234	1⅜ ₁₆	22,896	7	576 / 34	48 x 12 / 34	85
TB - 481836*	2⅝ ₃₂	21,600	7	864 / 36	48 x 18 / 36	79
TB - 480734*	½	13,356	9	336 / 34	48 x 7 / 34	53
TB - 481136*	½	13,200	9	528 / 36	48 x 11 / 36	53
TB - 240730*	⅜	16,880	8	168 / 30	24 x 7 / 30	62
TB - 480836*	⅜	9,600	10	384 / 36	48 x 8 / 36	40
TB - 240834	⅜	7,632	11	192 / 34	24 x 8 / 34	30
TB - 241336*	1⅜ ₆₄	7,800	11	312 / 36	24 x 13 / 36	31
TB - 240734	¼	6,678	12	168 / 34	24 x 7 / 34	26
TB - 240536*	⅛	3,000	15	120 / 36	24 x 5 / 36	13
TB - 240436*	7 ₆₄	2,400	16	96 / 36	24 x 4 / 36	11

* Denotes QQ-B-575 construction.

NOTE: Because tubular braid is very pliable, the I.D. dimensions are approximate.

Offset calculation guide

IMPORTANT: This offset calculation guide should be used as a reference only and represents a minimum percentage to be added depending on the offset dimension between two connecting points. A higher percentage might be necessary depending on the size and/or flexibility of the assembly.



Conversion chart

Area	To obtain	Multiply by
Square mils	Circular Mils	1.2732
	Square Inches	0.000001
Circular mils	Square Mils	0.7854
	Square Inches	0.000007854
	Circular Inches	0.000001
	Square Millimeters	0.0005067
Square inches	Square Mils	1,000,000
	Circular Mils	1,273,200
	Circular Inches	1.2732
	Square Millimeters	645.2
	Square Centimeters	6.452
Circular inches	Circular Mils	1,000,000
	Square Inches	0.7854
Square feet	Square Meters	0.09290
Square millimeters	Circular Mils	1,973.5
	Square Inches	0.0015500
Square centimeters	Square Inches	0.15500
Square meters	Square Feet	10.764
Area	To obtain	Multiply by
Mils	Inches	0.001
	Millimeters	0.02540
Inches	Mils	1,000
	Millimeters	25.40
	Centimeters	2.540
	Meters	0.02540
Millimeters	Mils	39.37
	Inches	0.03937
Centimeters	Inches	0.3937
	Feet	0.03281
Meters	Inches	39.37
	Feet	3.2808
	Yards	1.0936
Kilometers	Thousands of feet	3.2808
	Miles	0.6214
Miscellaneous	To obtain	Multiply by
Pounds	Kilograms	0.4536
Pounds per square inch	Kilograms per square centimeter	0.07031
Pounds per cubic inch	Grams per cubic centimeter	27.68
Pounds per 1,000 feet	Kilograms per kilometer	1.488
Grams per cubic centimeter	Pounds per cubic inch	0.03613
Kilograms	Pounds	2.2046
Kilograms per square centimeter	Pounds per square inch	14.223
Ohms per 1,000 feet	Ohms per kilometer	3.2808
Ohms per kilometer	Ohms per 1,000 feet	0.3048