

FLEXIBLE COPPER BRAID JUMPER

Copper braid is made of tinned, pure copper wire woven and flattened into a rectangular shape for greater flexibility. Seamless, pure copper ferrules are formed and assembled on each end to provide appropriate contact surfaces.



Braid is used extensively to compensate for expansion and contraction of moving parts and for thermal movement of rigid devices; to prevent breakage of insulators or bushings or equipment because of misalignment during settling of substation foundations; to absorb shock and vibration of operating equipment; and to provide flexible current carrying leads between moving parts of heavy machinery or equipment.

BULK BRAID

Bulk braid can be ordered with a minimum order quantity of 10 feet. Specify feet in number of inches.

Example: 10 feet of 190 ampere braid is Catalog No. BB077L120.

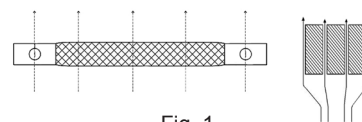


Fig. 1
Conventional current have maximum cooling effect with Braid in vertical position.

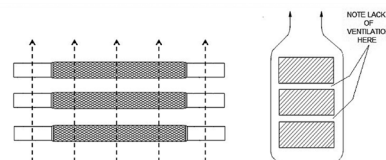
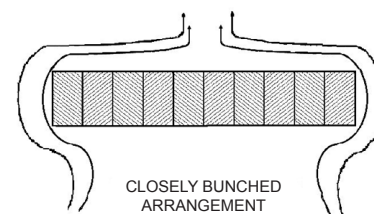


Fig. 2
Ventilation less efficient with Braid in horizontal position

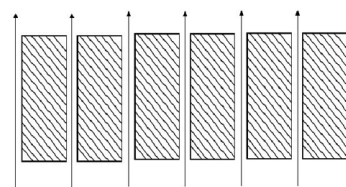
CURRENT CARRYING CAPACITY

Flexible copper braid has generally better heat dissipation properties than flat bar, cable or other conductors, and therefore can be expected to have a greater current carrying capacity for given cross-sectional area. This is due to its greater surface area resulting from the woven construction of fine strands. However, ventilation, due to the vertical convection current of air, is appreciably better when the long axis of the braid is vertical rather than horizontal, so that the long sides of the braid, rather than the edges, are exposed to the moving air. This is particularly true when spaced braids are used in multiple as can be seen by comparing Figure 1 and 2.

INDOOR RATING AMPS	EQUIV CIRCULAR AREA	CAT NO.	APPROX WEIGHT PER FT
75	24,000	BB024L	0.06
95	48,000	BB048L	0.16
110	67,000	BB067L	0.22
190	77,184	BB077L	0.24
340	153,700	BB154L	0.49
360	231,552	BB226L	0.76
415	300,000	BB300L	1.06



CLOSELY BUNCHED ARRANGEMENT



OPEN ARRANGEMENT
Cooling due to convection current much more effective with spaced Braid

Fig. 3



To take full advantage of ventilation, the cooling convection current of air should be permitted to flow freely between the braids. Therefore, if possible, the braids should be spaced apart, rather than bunched together, as illustrated in Figure 3. The effectiveness of spacing is, of course, greater when the braids are in a vertical position.

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FLEXIBLE COPPER BRAID

CUSTOM DESIGNS

Flexible copper braid offers an economical and efficient means of protecting electrical equipment from the potentially harmful effects of shock and vibration, terminal expansion, movement of components and misalignment that may occur during the service life of the equipment.

Many varieties of braid are required to meet those needs which we can build to your specifications.

We also offer engineering assistance in the selection of the most appropriate standard or custom braid configuration for your application.

CUSTOM VARIATIONS

Drilling

- * Undrilled
- * Elongated (slotted) holes
- * Special hole patterns and location
- * Metric
- * NEMA

Plating

- * Tin
- * Silver
- * Nickel
- * Unplated

Length

- * Jumper (overall)
- * Ferrule(s) contact

Insulated (covered)

- * Tubular
- * Heat shrink

Split Braid Assemblies

- * Stacked
- * Side-by-side

Multiple Ferrules

Preformed Configurations

- * Offset contact surfaces
- * Angular (e.g. 90°, 180°) bends
- * Ferrule contact surfaces rotated 90° on braid axis

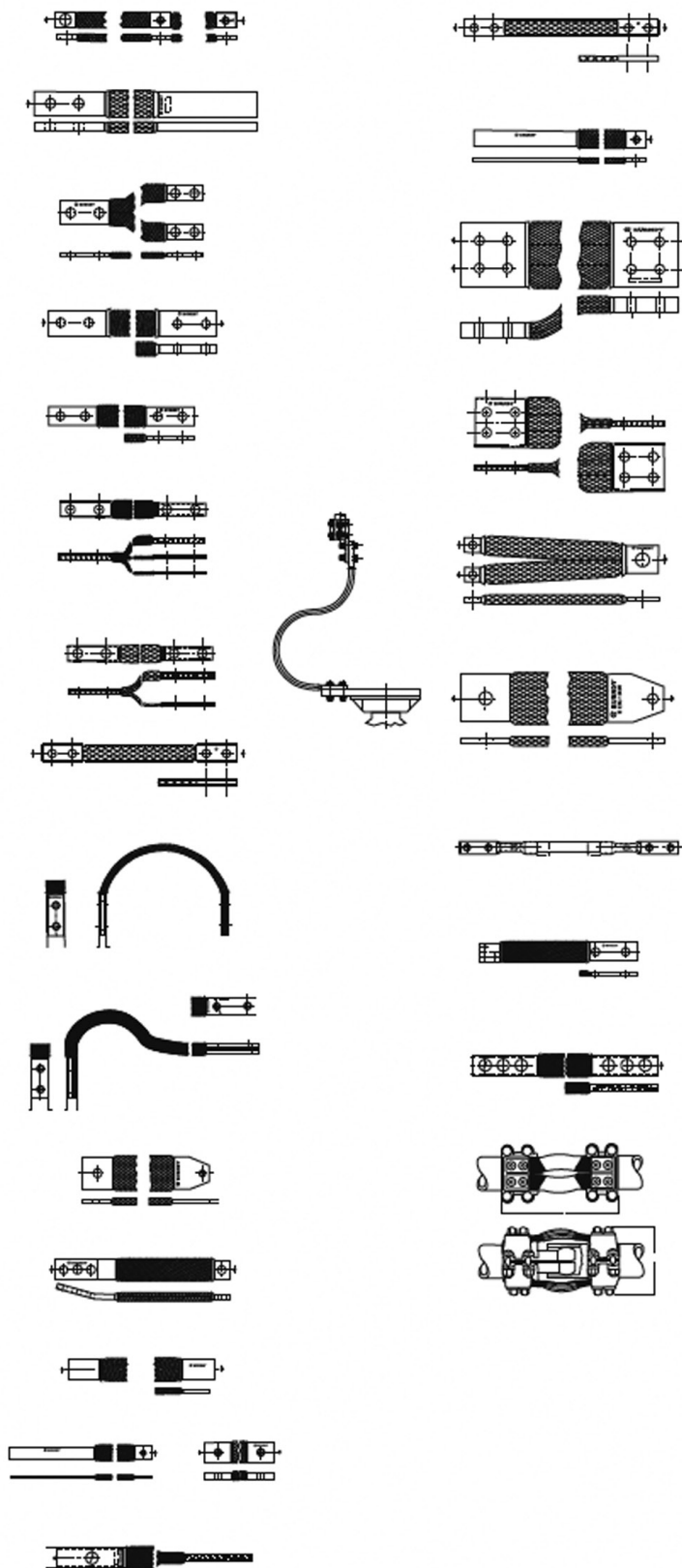
Combined Braid Assemblies

Combined connector - Braid Assemblies

Ferrule Variations

- * Belled/unbelled
- * Width/thickness
- * Contact length
- * Special shaping
- * Bent at angle°

High Ampacity Requirements



TYPE B

1-Hole Ferrule End Flexible Copper Braid, Bonding Jumpers, Bonding Straps

Flexible copper braid jumpers designed to take up linear expansion and contraction, compensate for misalignment and absorb vibratory movement of electrical equipment and devices. Made of flat extra flexible tinned pure copper braid with high quality BURNDY ferrules on each end. Other lengths, plating and connector sizes are available; contact BURNDY for more information.



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Catalog Number	AWG Equivalent	Length (inches)	End Type	Stud Hole	Approximate Ampere Rating	
					Indoor	Outdoor
BB024L6T14*	#6 AWG	6.00	Ferrule	1/4	75	100
BB024L9T14*	#6 AWG	9.00	Ferrule	1/4	75	100
BB036L9T14*	#5 AWG	9.00	Ferrule	1/4	85	125
BB036L12T14*	#5 AWG	12.00	Ferrule	1/4	85	125
BB036L18T14*	#5 AWG	18.00	Ferrule	1/4	85	125
BB048L6T14*	#4 AWG	6.00	Ferrule	1/4	95	150
BB048L9T14*	#4 AWG	9.00	Ferrule	1/4	95	150
BB067L6T14	#2 AWG	6.00	Ferrule	1/4	110	180
BB067L9T14	#2 AWG	9.00	Ferrule	1/4	110	180
BD6T14	#1 AWG	6.00	Ferrule	1/4	190	225
BD9T14	#1 AWG	9.00	Ferrule	1/4	190	225
BE12T716	3/0 AWG	12.00	Ferrule	7/16	340	405
BE18T716	3/0 AWG	18.00	Ferrule	7/16	340	405
BE12T58	3/0 AWG	12.00	Ferrule	5/8	340	405
BE18T58	3/0 AWG	18.00	Ferrule	5/8	340	405
BE24T58	3/0 AWG	24.00	Ferrule	5/8	340	405
BE6T716	3/0 AWG	6.00	Ferrule	7/16	340	405
BF6T716	4/0 AWG	6.00	Ferrule	7/16	360	430
BF12T716	4/0 AWG	12.00	Ferrule	7/16	360	430
BF18T716	4/0 AWG	18.00	Ferrule	7/16	360	430
BG6T716	300 kcmil	6.00	Ferrule	7/16	415	495
BG8T716	300 kcmil	8.00	Ferrule	7/16	415	495
BG12T716	300 kcmil	12.00	Ferrule	7/16	415	495
BG12T12	300 kcmil	12.00	Ferrule	1/2	415	495

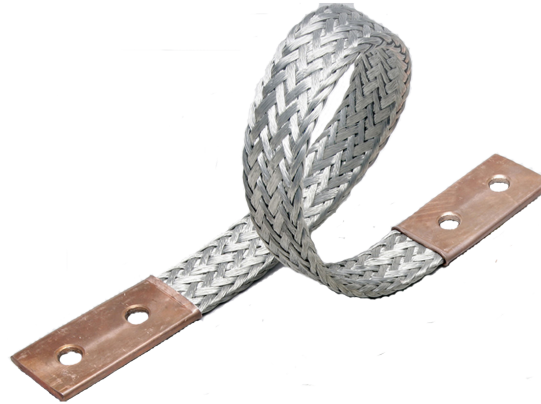
* Not CSA Certified

TYPE B

Flexible Copper Braid

Flexible copper braid jumpers designed to take up linear expansion and contraction, compensate for misalignment and absorb vibratory movement of electrical equipment and devices.

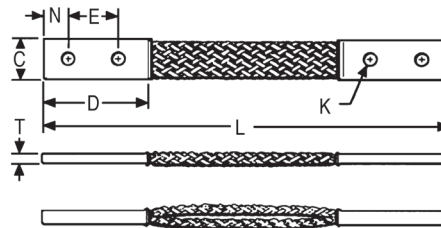
Made of flat extra flexible, tinned, pure copper braid, with unplated, seamless, pure copper ferrules formed into a rectangular shape on each end.



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Last two numbers in catalog number indicate total length of braid in inches (e.g., BD12N or BD12 is 12" long braid jumper).

Other lengths, plating and drilling are available. Contact the factory.



Catalog # Prefix	Equiv. AWG Size
BD	#1
BE	3/0
BF	4/0
BG	300 kcmil

Catalog Number	Number of Braids in Ferrules	C	D	E	K	L	N	T	Approximate Ampere Rating	
									Indoor	Outdoor
BD12 ②	1	0.94	2.50	1.25	0.44	12	0.62	0.13	190	225
BD12N ②	1	0.94	3.00	1.75	0.56	12	0.62	0.13	190	225
BD18 ②	1	0.94	2.50	1.25	0.44	18	0.62	0.13	190	225
BD18N ②	1	0.94	3.00	1.75	0.56	18	0.62	0.13	190	225
BD24 ②	1	0.94	2.50	1.25	0.44	24	0.62	0.13	190	225
BD24N ②	1	0.94	3.00	1.75	0.56	24	0.62	0.13	190	225
BE12 ②	1	1.50	3.00	1.50	0.44	12	0.75	0.17	340	405
BE12N ②	1	1.50	3.00	1.75	0.56	12	0.62	0.17	340	405
BE18 ②	1	1.50	3.00	1.50	0.44	18	0.75	0.17	340	405
BE18N ②	1	1.50	3.00	1.75	0.56	18	0.62	0.17	340	405
BE24 ②	1	1.50	3.00	1.50	0.44	24	0.75	0.25	340	405
BE24N ②	1	1.50	3.00	1.75	0.56	24	0.62	0.17	340	405
BF12 ②	1	1.19	3.00	1.50	0.44	12	0.75	0.25	360	430
BF12N ②	1	1.19	3.00	1.75	0.55	12	0.62	0.25	360	430
BF18 ②	1	1.19	3.00	1.50	0.44	18	0.75	0.25	360	430
BF18N ②	1	1.19	3.00	1.50	0.44	18	0.75	0.25	360	430
BF24 ②	1	1.19	3.00	1.50	0.44	24	0.75	0.25	360	430
BF24N ②	1	1.19	3.00	1.75	0.56	24	0.62	0.25	360	430
BG12	1	1.50	3.00	1.50	0.44	12	0.75	0.25	415	495
BG12N ①	1	1.50	3.00	1.75	0.56	12	0.62	0.25	415	495
BG18	1	1.50	3.00	1.50	0.44	18	0.75	0.25	415	495
BG18N ①	1	1.50	3.00	1.75	0.56	18	0.62	0.25	415	495
BG24	1	1.50	3.00	1.50	0.44	24	0.75	0.25	415	495
BG24N ①	1	1.50	3.00	1.75	0.56	24	0.62	0.25	415	495

① Tongue drilled per (2) hole NEMA Standard

② Certified to CSA C22.2, No. 41 Grounding and Bonding Equipment Standards in addition to the UL467 Listing which all items above are Listed to.

NOTE: Equivalent sizes may be designated by suffix letters representing variations in length, mounting configurations, pad size and finish. Contact factory for details. For Tin plated ferrules add suffix -TN to the catalog number.

TYPE B

Flexible Copper Braid (Continued)



Catalog Number	Number of Braids in Ferrules	C	D	E	K	L	N	T	Approximate Ampere Rating	
									Indoor	Outdoor
B2D12 ②	2	0.94	2.5	1.25	0.44	12	0.62	0.25	380	455
B2D12N ②	2	0.94	3.00	1.75	0.56	12	0.62	0.25	380	455
B2E12	2	1.62	3.00	1.50	0.44	12	0.75	0.25	530	635
B2E12N ①	2	1.62	3.00	1.75	0.56	12	0.62	0.25	530	635
B2F12	2	1.38	3.00	1.50	0.44	12	0.75	0.38	600	720
B2F12N ①	2	1.38	3.00	1.75	0.56	12	0.62	0.38	600	720
B2G12N ①	2	1.50	3.00	1.75	0.56	12	0.62	0.50	700	840
B3D12	3	1.19	2.50	1.25	0.44	12	0.62	0.25	470	560
B3D12N ②	3	1.19	3.00	1.75	0.56	12	0.62	0.25	470	560
B3E12	3	1.64	3.00	1.50	0.44	12	0.75	0.31	700	840
B3E12N ①	3	1.64	3.00	1.75	0.56	12	0.62	0.31	700	840
B3F12	3	1.44	3.00	1.50	0.44	12	0.75	0.56	820	980
B3F12N ①	3	1.44	3.00	1.75	0.56	12	0.62	0.56	820	980
B3G12	3	1.69	3.00	1.50	0.44	12	0.75	0.69	960	1150
B3G12N ①	3	1.69	3.00	1.75	0.56	12	0.62	0.69	960	1150
B4D12	4	1.19	2.50	1.25	0.44	12	0.62	0.32	600	720
B4D12N ①	4	1.19	3.00	1.75	0.56	12	0.62	0.32	600	720
B4E12	4	1.64	3.00	1.50	0.44	12	0.75	0.38	850	1020
B4E12N ①	4	1.64	3.00	1.75	0.56	12	0.62	0.38	850	1020
B4F12	4	1.50	3.00	1.50	0.44	12	0.75	0.78	1000	1200
B4F12N ①	4	1.50	3.00	1.75	0.56	12	0.62	0.78	1000	1200
B4G12N ①	4	1.69	3.00	1.75	0.56	12	0.62	0.94	1200	1440

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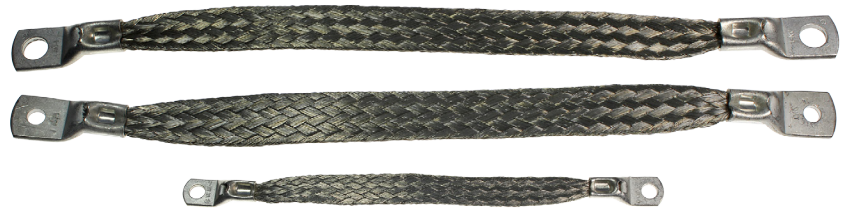
- ① Tongue drilled per (2) hole NEMA Standard
- ② Certified to CSA C22.2, No. 41 Grounding and Bonding Equipment Standards in addition to the UL467 Listing which all items above are Listed to.

NOTE:
Equivalent sizes may be designated by suffix letters representing variations in length, mounting configurations, pad size and finish. Contact factory for details. For Tin plated ferrules add suffix -TN to the catalog number.

TYPE BB-LT

1-Hole Connector End Flexible
Copper Braid, Bonding Jumpers,
Bonding Straps

Flexible copper braid jumpers designed to take up linear expansion and contraction, compensate for misalignment and absorb vibratory movement of electrical equipment and devices. Made of flat extra flexible tinned pure copper braid with high quality BURNDY tin plated connectors on each end. Other lengths, plating and connector sizes are available; contact BURNDY for more information.



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Catalog Number	AWG Equivalent	Length (inches)	End Type	Stud Hole
BB024L8LT14	#6 AWG	8.00	Connector	1/4
BB024L12LT14	#6 AWG	12.00	Connector	1/4
BB024L18LT14	#6 AWG	18.00	Connector	1/4
BB024L24LT14	#6 AWG	24.00	Connector	1/4
BB048L12LT14	#4 AWG	12.00	Connector	1/4
BB048L18LT14	#4 AWG	18.00	Connector	1/4
BB048L24LT14	#4 AWG	24.00	Connector	1/4
BB048L12LT38	#4 AWG	12.00	Connector	3/8
BB048L18LT38	#4 AWG	18.00	Connector	3/8
BB048L24LT38	#4 AWG	24.00	Connector	3/8
BB048L12LT12	#4 AWG	12.00	Connector	1/2
BB048L18LT12	#4 AWG	18.00	Connector	1/2
BB048L24LT12	#4 AWG	24.00	Connector	1/2

TYPES CCY, B-B

Covered Jumpers

Insulated flexible copper braid jumpers designed to take up linear expansion and contraction, compensate for misalignment and absorb vibratory movement of electrical equipment and devices. Made of extra flexible tinned pure copper braid with high quality BURNDY tin plated connectors or ferrules on each end. Other lengths, plating, insulation colors and connector sizes are available; contact BURNDY for more information.



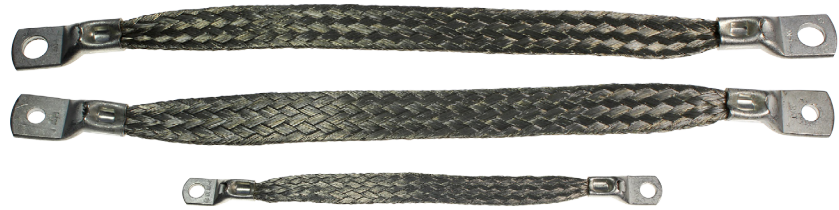
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Catalog Number	AWG Equivalent	Length (inches)	End Type	Stud Hole	Heat Shrink Color			
CCY106LT12G	#10 AWG	6.00	Connector	1/2	Green			
CCY10L9T12G		9.00		1/2				
CCY10L12T12G		12.00		1/2				
CCY10L18T12G		18.00		1/2				
CCY10L24T12G		24.00		1/2				
CCY10L12LT1090G		12.00		#8-#10		Green		
CCY10L18LT1090G		18.00		#8-#10				
CCY10L24LT1090G		24.00		#8-#10				
CCY10L6LT38G		#10 AWG		6.00		Connector	3/8	Green & Yellow
CCY10L9LT38G				9.00			3/8	
CCY10L12LT38G	12.00		3/8					
CCY10L18LT38G	18.00		3/8					
CCY10L24LT38G	24.00		3/8					
CCY10L7T14GY	7.00		1/4	Black				
CCY10L9T14GY	9.00		1/4					
CCY10L12LT14GY	12.00	1/4						
CCY10L14LT14GY	14.00	1/4						
CCY10L18LT14GY	18.00	1/4						
BB024L12LT14B	#6 AWG	12.00	Connector	1/4	Black			
BB024L18LT14B		18.00		1/4				
BB024L24LT14B		24.00		1/4				
BD12NB	#1 AWG	12.00	Ferrule	2 hole NEMA	Black			
BD18NB		18.00		2 hole NEMA				
BD24NB		24.00		2 hole NEMA				

TYPE BB-SS

Stainless Steel Braid

Flexible stainless steel braid jumpers designed to take up linear expansion and contraction, compensate for misalignment and absorb vibratory movement of electrical equipment and devices. Made of flat extra flexible stainless steel braid with high quality BURNDY tin plated connectors or ferrules on each end. Other lengths, plating and connector sizes are available; contact BURNDY for more information.



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Catalog Number	AWG Equivalent	Length (inches)	End Type	Stud Hole	
BB024SSL6LT516	#6 AWG	6.00	Connector	5/16	
BB024SSL9LT516		9.00		5/16	
BB024SSL12LT516		12.00		5/16	
BB024SSL6LT38		6.00		3/8	
BB024SSL9LT38		9.00		3/8	
BB024SSL12LT38		12.00		3/8	
BB024SSL6LT14		6.00		1/4	
BB024SSL9LT14		9.00		1/4	
BB024SSL12LT14		12.00		1/4	
BB024SSL6T14		6.00		Ferrule	1/4