

FLEXIBLE CONDUCTORS PRODUCT OVERVIEW

Product Range	Typical Uses	Typical Market
Insulated flexible busbar (ERIFLEX FLEXIBAR) 	• Heavy-duty power interconnection • Overcome vibration/alignment problems • Circuit breaker, generator and prefabricated power network conductor • Expansion joints • Variable terminating positions • Machine connections • Movable connection from massive busbar system • Alternative to large & multiple cables • Alternative to rigid busbar	• Switchgear & control equipment • Transport • Electrical equipment manufacturers • Power generation • Machinery manufacturer
Insulated braided conductor (IBS, IBSB & IBSBR) 	• Interconnects for low voltage power distribution units • IBSB specially designed for industrial circuit breaker connection • Overcome vibration/alignment problems • Battery connections • Earth ground connections	• Interconnects for low voltage power distribution units • IBSB specially designed for industrial circuit breaker connection • Overcome vibration/alignment problems • Battery connections • Earth ground connections
Power shunt (PBC, PBCR & PPS) 	• Transformer or generator to busbar connection • Overcome vibration/alignment problems • Power interconnection	• Switchgear & control equipment • Power distribution • Transportation
Earth ground copper braids (MBJ & BJ) 	• Power, earthing/grounding and equipotential connections • Electrical bonding enclosure door • EMI effect reduction application	• Switchgear & control equipment • Rail transportation • Electrical equipment manufacturers • Power generation (wind, solar) • Data center
Earth ground stainless steel braids (CPI) 	• Earthing/grounding and equipotential connections • Superior abrasion, corrosion, chemical, and UV resistance for outdoor applications • Expansion joints • Connections for lightning protection systems	• Transportation • Food and beverage industry • Power generation (wind, solar) • Chemical and oil industry • Automotive • Defense & aerospace • Civil construction • Urban projects
Flat and round copper braids in coils 	• Earth/ground connections • Power interconnection • Lightning protection • Flexible links • Overcome vibration/alignment problems	• Defense & aerospace • Rail transportation • Automotive • Electronics • General electrical sector • Civil construction
Tubular copper braids in coils 	• Screening of cables from electromagnetic, electrostatic and RF interference • Mechanical support • Protection against abrasion and corrosion • EMC & EMH applications	• Defense & aerospace • Transportation • Electronics & communication • Cable harness & assembly makers • Component distributors

ERIFLEX ERIFLEX FLEXIBAR INSULATED FLEXIBLE BUSBAR



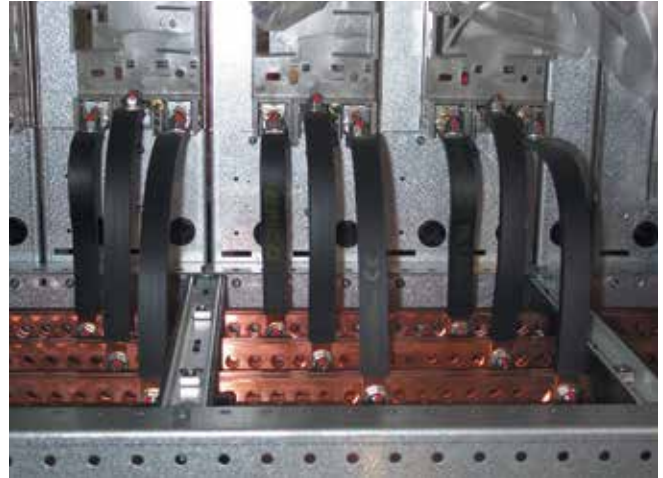
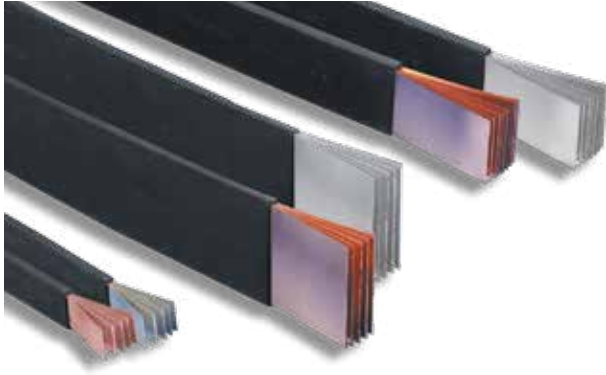
FEATURES

- ERIFLEX FLEXIBAR is formed with multiple layers of thin electrolytic copper, available in plain or tin plated
- ERIFLEX FLEXIBAR connections are made by punching directly through the laminates. There are no lugs to purchase, helping to eliminate faulty connection problems and making installation simpler and faster
- The insulation is a high-resistance, self-extinguishing PVC or silicone compound
- Traceability code and designation catalog number on product
- Easily formed, ERIFLEX FLEXIBAR improves assembly flexibility and aesthetics of panels
- Ideal alternative to large cable and rigid busbar
- Quality: 100% production dielectric tested
- Full range from 24 mm² up to 1200 mm²

SPECIFICATIONS

- Copper laminates are free to slide within the insulation
- High insulation quality
- Wide variety of bending, twisting and folding possibilities
- Usage -50°C up to 105°C (-53°F up to 221°F)
- Nominal voltage = 1000 V AC/1500 V DC
- Self-extinguishable
- High mechanical resistance
- High elongation value
- High current withstanding
- High copper quality (99.9% purity)
- High conductivity

ERIFLEX FLEXIBAR BUSBAR SELECTION AND TECHNICAL CHARACTERISTICS



SPECIFICATIONS

Temperature rise of conductor = $T2 - T1 = \Delta T$ (K)

Ex: For a current of 630A, with: $T1 = 40^{\circ}\text{C}$ - $T2 = 90^{\circ}\text{C}$

- 1) $\Delta T = 90 - 40 = 50\text{K}$
- 2) In the 50°K column, find the closest current value to 630A.
ERIFLEX FLEXIBAR 5x32x1 - 552650 - 160 mm² - 640A.
- 3) Select ERIFLEX FLEXIBAR according to the terminal width of the equipment being connected.

K = Kelvin degree (temperature calculated, but not measurable)

ERIFLEX FLEXIBAR in parallel

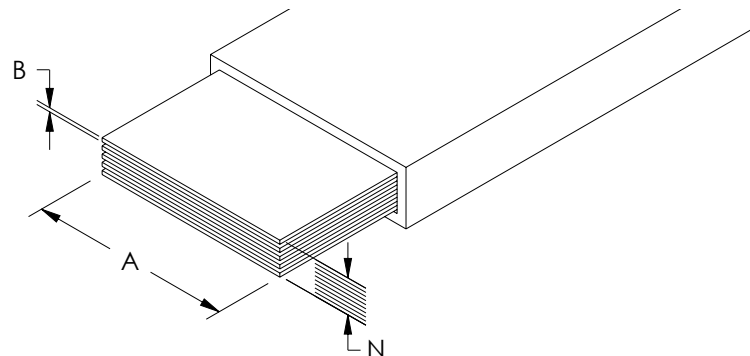
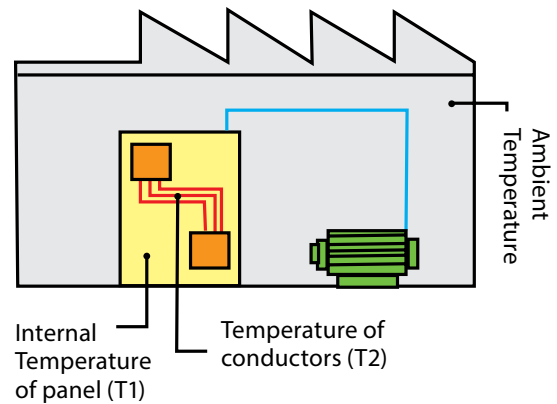
When using 2 or 3 ERIFLEX FLEXIBAR on edge in parallel for the same phase, use the coefficient:

Ex: $5 \times 32 \times 1 - \Delta T^{\circ} = 50\text{K}$: 640 A

2 bars in parallel > 640 A x 1,72 = 1100 A

3 bars in parallel > 640 A x 2,25 = 1440 A

Selection of FLEXIBAR Busbar according to the internal temperature of the panel.



Typical Application Current Rating	ERIFLEX FLEXIBAR Composition			ΔT 20° C (A)	ΔT 30° C (A) “NEC 310-16 60° C”	ΔT 35° C (A)	ΔT 40° C (A)	ΔT 45° C (A) “NEC 310-16 75° C”	ΔT 50° C (A)	ΔT 60° C (A) “NEC 310-16 90° C”	ΔT 65° C (A)	ΔT 70° C (A)
125 A	3	9	0.8	101	126	138	148	158	167	185	193	201
	3	13	0.5	102	128	139	150	160	169	187	195	203
	2	15.5	0.8	121	152	166	178	190	201	222	232	241
	6	13	0.5	150	188	205	221	235	249	275	287	299
	6	9	0.8	153	192	210	226	241	255	281	293	305
250 A	2	20	1	168	211	229	247	263	279	307	321	334
	4	15.5	0.8	178	223	243	262	279	295	326	340	354
	2	24	1	195	244	266	286	305	323	357	373	388
	3	20	1	210	263	286	308	328	347	383	400	416
	6	15.5	0.8	225	282	308	331	353	374	412	430	448
	3	24	1	243	304	331	356	379	402	443	463	482
	4	20	1	246	308	336	361	385	408	450	470	489
400 A	2	32	1	248	311	338	364	388	411	454	474	493
	5	20	1	280	351	382	411	438	464	512	535	556
	4	24	1	285	356	388	418	445	472	520	543	565
	2	40	1	301	376	409	440	470	497	549	573	596
	3	32	1	308	385	419	451	481	510	562	587	611
	6	20	1	311	390	424	457	487	516	569	594	618
	5	24	1	322	403	439	472	504	534	589	615	640
	6	24	1	357	448	487	524	559	592	653	682	710
	4	32	1	359	449	489	526	561	594	655	684	712
	3	40	1	371	464	505	544	580	614	677	707	736
	5	32	1	405	507	552	594	633	671	740	773	804
	8	24	1	424	531	578	622	663	702	775	809	841
	4	40	1	432	541	589	633	675	715	789	824	857
	6	32	1	448	561	611	657	701	742	819	855	889
	3	50	1	449	562	612	658	702	743	820	856	891
800 A	10	24	1	484	606	660	710	757	802	885	924	961
	5	40	1	486	608	662	712	759	804	887	926	964
	4	50	1	521	651	709	763	813	861	950	992	1032
	8	32	1	525	657	715	770	821	869	959	1001	1042
	6	40	1	535	669	728	784	835	885	976	1019	1061
	3	63	1	549	687	747	804	857	907	1002	1046	1088
	5	50	1	583	730	794	855	911	965	1065	1112	1157
	6	45	1	588	736	801	862	919	973	1074	1121	1167
	10	32	1	595	745	811	873	931	986	1088	1136	1182
	8	40	1	628	786	855	920	981	1039	1146	1197	1246
	4	63	1	633	792	861	927	988	1046	1155	1205	1255
	6	50	1	641	802	873	940	1002	1061	1171	1222	1272
1200 A	3	80	1	675	844	918	988	1053	1115	1231	1285	1337
	10	40	1	702	879	956	1029	1097	1162	1282	1338	1393
	5	63	1	706	883	961	1033	1102	1167	1288	1344	1399
	8	50	1	741	927	1009	1085	1157	1226	1352	1412	1469
	6	63	1	772	966	1051	1130	1205	1276	1408	1470	1530
	4	80	1	776	970	1056	1136	1211	1282	1415	1477	1538
	10	50	1	831	1040	1132	1217	1298	1375	1517	1584	1648
	5	80	1	861	1077	1172	1260	1344	1423	1570	1640	1706
1600 A	8	63	1	886	1108	1205	1297	1383	1464	1616	1687	1756
	6	80	1	938	1172	1275	1372	1463	1549	1709	1785	1858
	10	63	1	985	1232	1341	1442	1538	1628	1797	1876	1953
	5	100	1	1041	1301	1416	1523	1624	1719	1898	1982	2062
	8	80	1	1073	1341	1460	1570	1674	1773	1956	2043	2126
2000 A	6	100	1	1132	1414	1539	1655	1765	1869	2062	2153	2241
	10	80	1	1187	1484	1614	1736	1851	1960	2164	2259	2351
	8	100	1	1279	1598	1739	1870	1994	2111	2330	2433	2532
	10	100	1	1413	1765	1921	2066	2203	2332	2574	2688	2797
2000 A	12	100	1	1537	1920	2089	2247	2396	2537	2800	2924	3043

ADMISSIBLE CURRENTS: This table indicates the temperature rise produced by chosen current in the given section. This calculation does not take into account the heat dissipation from the switch gear.

ΔT = Temperature of conductors – Internal temperature of panel.

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ERIFLEX FLEXIBAR, TINNED COPPER



INDUSTRY STANDARDS

Certification Details: UL 67, UL 758

CSA C22.2 No. 0 and 210

Complies With: IEC 60439.1, IEC 61439.1, IEC 61439.1 Class II

FEATURES

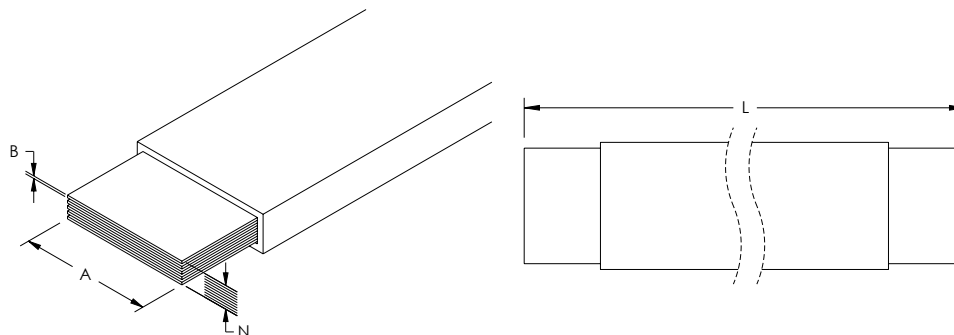
- Thin layers of tinned electrolytic copper formed into a stack
- Insulated by high-resistance, self-extinguishing PVC with less than 20% contact with conductor for high flexibility
- Easily bent, folded, and twisted, improving assembly flexibility, shortening connections, and decreasing footprint
- Dramatically smaller and more flexible than comparable cable based on ampacity
- Better power density than cable with lower skin effect ratio
- Connections made by punching and bolting directly through the copper laminates, clamping onto the end of the ERIFLEX
- ERIFLEX FLEXIBAR, or welding using CADWELD
- No lugs needed, reducing installation time and improving resistance to vibration
- Weight savings and material savings compared to wire alternatives
- Reduces total installation cost
- Traceability codes and designation part numbers printed on insulation
- 100% production dielectric tested
- UL 758 Appliance Wiring Material requirements for Cold Bend testing at -40°C and -50°C (-40°F and -58°F)
- GOST compliant
- RoHS compliant

SPECIFICATIONS

- Material: Copper, Polyvinyl Chloride
- Dielectric Strength: 20 kV/mm
- Flammability Rating: UL 94V-0
- Insulation Elongation: 370 %
- Insulation Thickness: 0.08"
- Nominal Voltage, UL/IEC: 1,000 VAC, 1,500 VDC
- Operating Temperature: -58 to 221 °F
- Forming Temperature: 32 – 131 °F

FINISH

- Finish: Tinned



Typical Application Current Rating: 125 A

Catalog Number	L (Ft.)	.T 30 K (A)	.T 45 K (A)	.T 60 K (A)	N (in.)	A (in.)	B (in.)	Cross Section (kcmil)	2 Bar Current Coefficient	3 Bar Current Coefficient	Qty.
FLEX2MTC3X9X08	6.56	126	158	185	3	0.354	0.031	42.63	1.72	2.25	1
FLEX2MTC3X13	6.56	128	160	187	3	0.512	0.02	38.48	1.72	2.25	1
FLEX2MTC2X155	6.56	152	190	222	2	0.61	0.031	48.94	1.72	2.25	1
FLEX2MTC6X13	6.56	188	235	275	6	0.512	0.02	77	1.72	2.25	1
FLEX2MTC6X9X08	6.56	192	241	281	6	0.354	0.031	85.26	1.72	2.25	1

ADMISSIBLE CURRENTS: This table indicates the temperature rise produced by chosen current in the given section. This calculation does not take into account the heat dissipation from the switch gear.

ΔT = Temperature of conductors – Internal temperature of panel.

Typical Application Current Rating: 250 A

Catalog Number	L (Ft.)	.T 30 K (A)	.T 45 K (A)	.T 60 K (A)	N (in.)	A (in.)	B (in.)	Cross Section (kcmil)	2 Bar Current Coefficient	3 Bar Current Coefficient	Qty.
FLEX2MTC4X16	6.56	223	279	326	4	0.61	0.031	97.89	1.72	2.25	1
FLEX2MTC6X16	6.56	282	353	412	6	0.61	0.031	146.83	1.72	2.25	1
FLEX3MTC2X20X1	9.84	211	263	307	2	0.787	0.039	78.94	1.72	2.25	1
FLEX3MTC2X24X1	9.84	244	305	357	2	0.945	0.039	94.73	1.72	2.25	1
FLEX3MTC3X20X1	9.84	263	328	383	3	0.787	0.039	118.41	1.72	2.25	1
FLEX3MTC3X24X1	9.84	304	379	443	3	0.945	0.039	142.1	1.72	2.25	1
FLEX3MTC4X20X1	9.84	308	385	450	4	0.787	0.039	157.88	1.72	2.25	1
FLEX3MTC2X32X1	9.84	311	385	454	2	1.26	0.039	126.3	1.72	2.25	1

ADMISSIBLE CURRENTS: This table indicates the temperature rise produced by chosen current in the given section. This calculation does not take into account the heat dissipation from the switch gear.

ΔT = Temperature of conductors – Internal temperature of panel.

Typical Application Current Rating: 400 A

Catalog Number	L (Ft.)	.T 30 K (A)	.T 45 K (A)	.T 60 K (A)	N (in.)	A (in.)	B (in.)	Cross Section (kcmil)	2 Bar Current Coefficient	3 Bar Current Coefficient	Qty.
FLEX3MTC5X20X1	9.84	351	438	512	5	0.787	0.039	197.35	1.72	2.25	1
FLEX3MTC6X24X1	9.84	356	445	520	4	0.945	0.039	189.46	1.72	2.25	1
FLEX3MTC2X40X1	9.84	376	470	549	2	1.575	0.039	157.88	1.72	2.25	1
FLEX3MTC3X32X1	9.84	385	481	562	3	1.26	0.039	189.46	1.72	2.25	1
FLEX3MTC6X20X1	9.84	390	487	569	6	0.787	0.039	236.8	1.72	2.25	1
FLEX3MTC5X24X1	9.84	403	504	589	5	0.945	0.039	236.8	1.72	2.25	1
FLEX3MTC6X24X1	9.84	448	559	653	6	0.945	0.039	284.19	1.72	2.25	1
FLEX3MTC4X32X1	9.84	449	561	665	4	1.26	0.039	252.6	1.72	2.25	1
FLEX3MTC3X40X1	9.84	464	580	677	3	1.575	0.039	236.8	1.72	2.25	1
FLEX3MTC5X32X1	9.84	507	633	740	5	1.26	0.039	315.7	1.72	2.25	1
FLEX3MTC8X24X1	9.84	531	663	775	8	0.945	0.039	378.9	1.72	2.25	1
FLEX3MTC4X40X1	9.84	541	675	789	4	1.575	0.039	315.7	1.72	2.25	1
FLEX3MTC6X32X1	9.84	561	701	819	6	1.26	0.039	378.9	1.72	2.25	1
FLEX3MTC3X50X1	9.84	562	702	820	3	1.969	0.039	296.03	1.72	2.25	1
FLEX3MTC10X24X1	9.84	606	757	885	10	0.945	0.039	473.65	1.72	2.25	1
FLEX3MTC5X40X1	9.84	608	759	887	5	1.575	0.039	394.7	1.72	2.25	1

ADMISSIBLE CURRENTS: This table indicates the temperature rise produced by chosen current in the given section. This calculation does not take into account the heat dissipation from the switch gear.

ΔT = Temperature of conductors – Internal temperature of panel.

Typical Application Current Rating: 800 A

Catalog Number	L (Ft.)	.T 30 K (A)	.T 45 K (A)	.T 60 K (A)	N (in.)	A (in.)	B (in.)	Cross Section (kcmil)	2 Bar Current Coefficient	3 Bar Current Coefficient	Qty.
FLEX3MTC4X50X1	9.84	651	813	950	4	1.969	0.039	394.7	1.72	2.25	1
FLEX3MTC8X32X1	9.84	657	821	959	8	1.26	0.039	505.22	1.72	2.25	1
FLEX3MTC6X40X1	9.84	669	835	976	6	1.575	0.039	473.65	1.72	2.25	1
FLEX3MTC3X63X1	9.84	687	857	1,002	3	2.48	0.039	373	1.65	2.12	1
FLEX3MTC5X50X1	9.84	730	911	1,065	5	1.969	0.039	493.38	1.72	2.25	1
FLEX3MTC6X45X1	9.84	736	919	1,074	6	1.772	0.039	532.85	1.72	2.25	1
FLEX3MTC10X32X1	9.84	745	931	1,088	10	1.26	0.039	631.5	1.72	2.25	1
FLEX3MTC8X40X1	9.84	786	981	1,146	8	1.575	0.039	631.5	1.72	2.25	1
FLEX3MTC4X63X1	9.84	792	988	1,155	4	2.48	0.039	497.33	1.65	2.12	1
FLEX3MTC6X50X1	9.84	802	1,002	1,171	6	1.969	0.039	592.06	1.72	2.25	1
FLEX3MTC3X80X1	9.84	844	1,053	1,231	3	3.15	0.039	473.65	1.65	2.12	1
FLEX3MTC10X40X1	9.84	879	1,097	1,282	10	1.575	0.039	789.41	1.72	2.25	1
FLEX3MTC5X63X1	9.84	883	1,102	1,288	5	2.48	0.039	621.66	1.65	2.12	1
FLEX3MTC8X50X1	9.84	927	1,157	1,352	8	1.969	0.039	789.41	1.72	2.25	1

ADMISSIBLE CURRENTS: This table indicates the temperature rise produced by chosen current in the given section. This calculation does not take into account the heat dissipation from the switch gear.

ΔT = Temperature of conductors – Internal temperature of panel.

Typical Application Current Rating: 1,200 A

Catalog Number	L (Ft.)	.T 30 K (A)	.T 45 K (A)	.T 60 K (A)	N (in.)	A (in.)	B (in.)	Cross Section (kcmil)	2 Bar Current Coefficient	3 Bar Current Coefficient	Qty.
FLEX3MTC6X63X1	9.84	966	1,205	1,408	6	2.48	0.039	746	1.65	2.12	1
FLEX3MTC4X80X1	9.84	970	1,211	1,415	4	3.15	0.039	631.5	1.65	2.12	1
FLEX3MTC10X50X1	9.84	1,040	1,298	1,517	10	1.969	0.039	986.76	1.72	2.25	1
FLEX3MTC5X80X1	9.84	1,077	1,344	1,570	5	3.15	0.039	789.41	1.65	2.12	1
FLEX3MTC8X63X1	9.84	1,108	1,383	1,616	8	2.48	0.039	994.66	1.65	2.12	1
FLEX3MTC6X80X1	9.84	1,172	1,463	1,709	6	3.15	0.039	947.3	1.65	2.12	1
FLEX3MTC10X63X1	9.84	1,232	1,538	1,797	10	2.48	0.039	1,243.30	1.65	2.12	1

ADMISSIBLE CURRENTS: This table indicates the temperature rise produced by chosen current in the given section. This calculation does not take into account the heat dissipation from the switch gear.

ΔT = Temperature of conductors – Internal temperature of panel.

Typical Application Current Rating: 1,600 A

Catalog Number	L (Ft.)	.T 30 K (A)	.T 45 K (A)	.T 60 K (A)	N (in.)	A (in.)	B (in.)	Cross Section (kcmil)	2 Bar Current Coefficient	3 Bar Current Coefficient	Qty.
FLEX3MTC5X100X1	9.84	1,301	1,624	1,898	5	3.937	0.039	986.76	1.6	2.02	1
FLEX3MTC8X80X1	9.84	1,341	1,674	1,956	8	3.15	0.039	1,263.06	1.65	2.12	1
FLEX3MTC6X100X1	9.84	1,414	1,765	2,062	6	3.937	0.039	1,184.12	1.6	2.02	1
FLEX3MTC10X80X1	9.84	1,484	1,851	2,164	10	3.15	0.039	1,578.80	1.65	2.12	1
FLEX3MTC8X100X1	9.84	1,598	1,994	2,330	8	3.937	0.039	1,578.80	1.6	2.02	1

ADMISSIBLE CURRENTS: This table indicates the temperature rise produced by chosen current in the given section. This calculation does not take into account the heat dissipation from the switch gear.

ΔT = Temperature of conductors – Internal temperature of panel.

Typical Application Current Rating: 2,000 A

Catalog Number	L (Ft.)	.T 30 K (A)	.T 45 K (A)	.T 60 K (A)	N (in.)	A (in.)	B (in.)	Cross Section (kcmil)	2 Bar Current Coefficient	3 Bar Current Coefficient	Qty.
FLEX3MTC10X100	9.84	1,765	2,203	2,574	10	3.937	0.039	1,973.52	1.6	2.02	1
FLEX3MTC12X100	9.84	1,920	2,396	2,800	12	3.937	0.039	2,368.23	1.6	2.02	1

ADMISSIBLE CURRENTS: This table indicates the temperature rise produced by chosen current in the given section. This calculation does not take into account the heat dissipation from the switch gear.

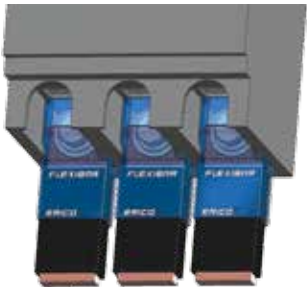
ΔT = Temperature of conductors – Internal temperature of panel.

ERIFLEX ERIFLEX FLEXIBAR END COVER



- End cover for ERIFLEX FLEXIBAR and Insulated Power Braid
- Allows for visual inspection of connection
- Easy fitting after fixing
- RoHS compliant
- Material: Polycarbonate
- Flammability Rating: UL 94V-0

Catalog Number	Conductor Width (in.)	Unit Weight (lb.)	Qty.
ENDCOV20	0.79	0.42	12
ENDCOV24	0.94	0.48	12
ENDCOV32	1.26	0.57	12



FLEXIBLE SPACER CLAMPS



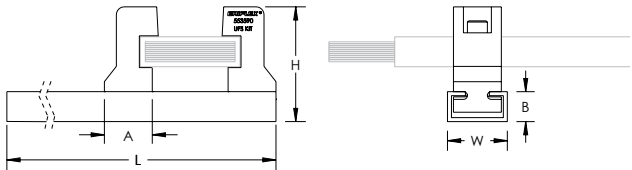
FEATURES

- Easy to install
- Provides support
- Allows for proper cooling

UFS ERIFLEX FLEXIBAR AND IBSB SUPPORT KIT



- Kit includes one rail and 24 retaining blocks
- Create up to three 650 mm (25.6") supports capable of holding four ERIFLEX FLEXIBAR
- Retaining blocks are halogen free
- RoHS compliant



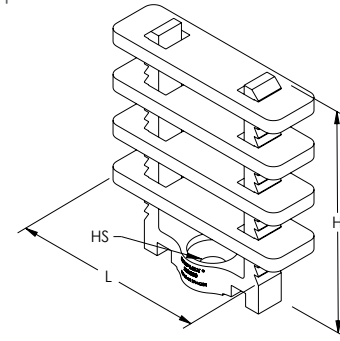
Catalog Number	Conductor Thickness (in.)	Conductor Width (in.)	Height H (in.)	Length L (Ft.)	Width W (in.)	A (in.)	B (in.)	Unit Weight (lb.)	Qty.
UFSKIT	0.08 – 0.39	0.61 – 4.72	2.27	6.56	1.18	0.95	0.59	5.07	1

FS SPACER CLAMP, SNAP CLOSE



SPECIFICATIONS

- Material: Polyamide
- Working Temperature: -40 to 266 °F



INDUSTRY STANDARDS

UL Recognized
Flammability Rating: UL 94HB

FEATURES

- Provides support for ERIFLEX FLEXIBAR and insulated braided conductors without damaging the insulation
- Ensures correct spacing for optimum cooling
- Supports up to four conductors in parallel
- Easy to install
- Halogen free
- Recommended distance between clamps: 15.75 in. (400 mm)
- RoHS compliant

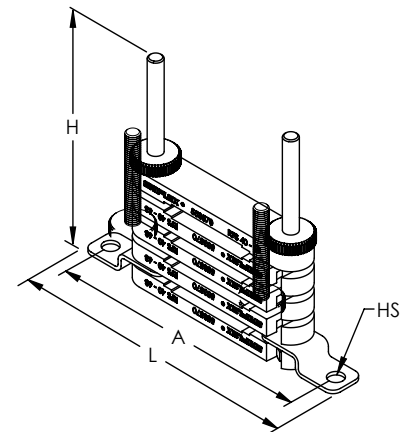
Catalog Number	Conductor Width (in.)	Height H (in.)	Length L (in.)	Hole Size HS (in.)	Unit Weight (lb.)	Qty.
FS24	0.95 Max	2.04	1.18	0.27	0.03	25
FS32	1.25 Max	2.04	1.49	0.27	0.04	25

FS SPACER CLAMP



FINISH

- Finish: Electrogalvanized



INDUSTRY STANDARDS

UL Recognized
Flammability Rating: UL 94HB

FEATURES

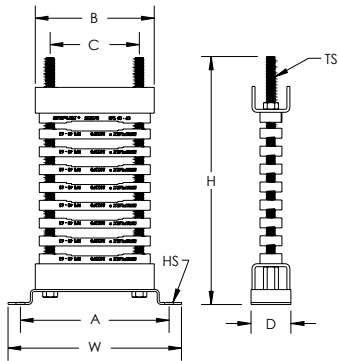
- Provides support for ERIFLEX FLEXIBAR and insulated braided conductors without damaging the insulation
- Ensures correct spacing for optimum cooling
- Supports up to four conductors in parallel
- Easy to install
- Halogen free
- Recommended distance between clamps: 15.75 in. (400 mm)
- RoHS compliant

SPECIFICATIONS

- Material: Polyamide, Steel
- Working Temperature: -40 to 266 °F

Catalog Number	Conductor Width (in.)	Height H (in.)	Length L (in.)	Hole Size HS (in.)	A (in.)	Unit Weight (lb.)	Qty.
FS4063	1.57 – 2.48	3.74	6.54	0.33	5.90	0.22	10
FS80100	3.15 – 3.94	5.51	8.82	0.33	7.87	0.55	10

RFS REINFORCED ERIFLEX FLEXIBAR SUPPORT



- Supports up to eight conductors in parallel
- Ensures correct spacing for optimum cooling
- Easy to install
- Spacers are halogen free
- RoHS compliant

Catalog Number	Conductor Width (in.)	D (in.)	H (in.)	W (in.)	HS (in.)	TS	A (in.)	B (in.)	C (in.)	Unit Weight (lb.)	Qty.
RFS4063	1.57 – 2.48	1.57	8.26	6.89	0.35	M8	5.9	4.72	3.54	0.53	1
RFS80100	3.15 – 3.94	1.57	8.26	8.86	0.35	M8	7.87	6.69	5.51	0.66	1

INSULATED BRAIDED CONDUCTORS (IBS, IBSB AND IBSBR)



SPECIFICATIONS

Temperature rise of conductor = $T_2 - T_1 = \Delta T$ (K)

Ex.: For a current of 630A, with:

$T_1 = 40\text{ C (104 F)}$ - $T_2 = 90\text{ C (194 F)}$

1) $\Delta T = 90 - 40 = 50\text{K}$

2) In the 50 K column, find the closest current value to 630A.

K = Kelvin degree (temperature calculated, but not measurable.)

Insulated braided conductor in parallel

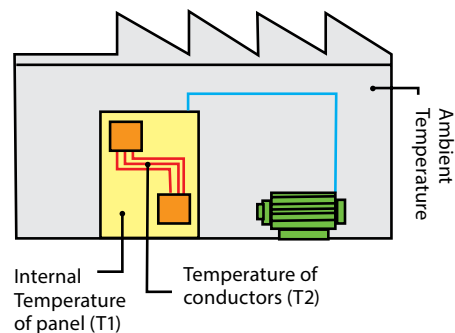
When using 2 or 3 insulated braided conductors in parallel for the same phase, use the current coefficient:

Ex.: IBSB 100 - $\Delta T^\circ = 50\text{K}$: 385 A

2 braids in parallel > $385\text{ A} \times 1,6 = 616\text{ A}$

3 braids in parallel > $385\text{ A} \times 2 = 770\text{ A}$

Selection of insulated braided conductor IBS, IBSB & IBSBR according to the internal temperature of the panel.

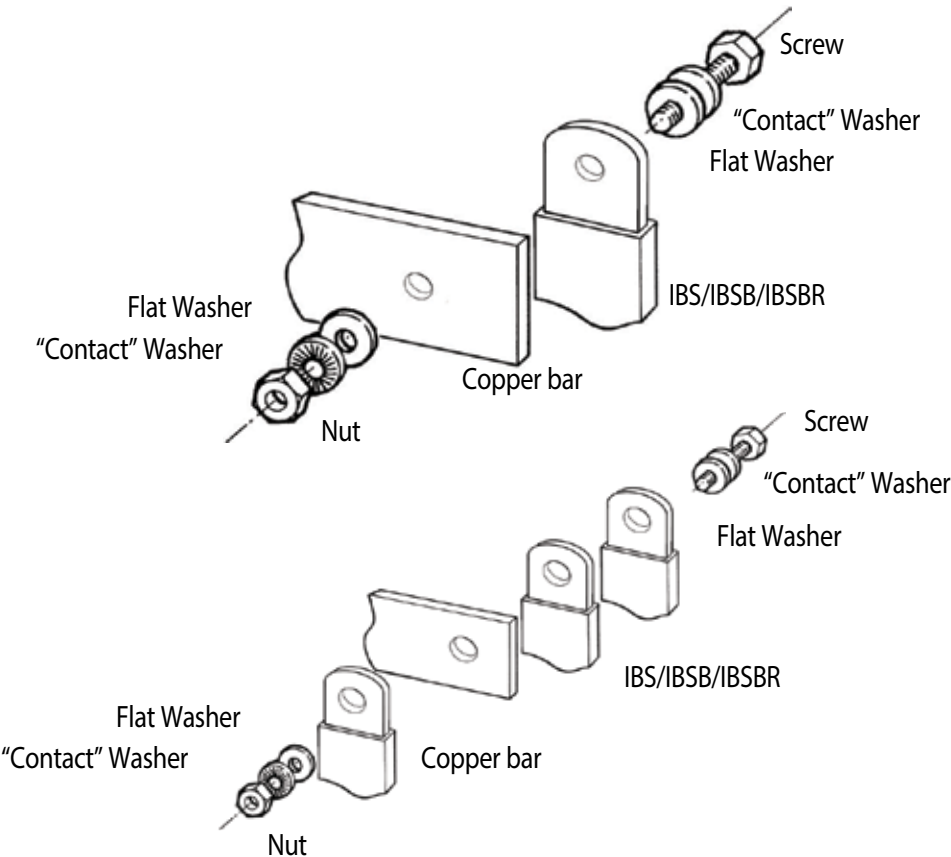


Insulated Braided Conductor Type	Section (sq-mm)	ΔT (K) 30	ΔT (K) 40	ΔT (K) 45	ΔT (K) 50	ΔT (K) 55	ΔT (K) 60	ΔT (K) 70	Current Coefficient 2 Busbars	Current Coefficient 3 Busbars
IBS 25	25	137	158	167	177	185	193	209	1,6	2
IBSB 25	25	116	134	142	150	157	164	177	1,6	2
IBS 50	50	213	246	260	274	288	301	325	1,6	2
IBSB 50	50	213	246	260	274	288	301	325	1,6	2
IBSB 70	70	226	261	277	291	306	319	345	1,6	2
IBSB 100	100	298	344	365	385	404	422	456	1,6	2
IBS 120	120	325	376	398	420	441	460	497	1,6	
IBSBR 120	120	363	419	444	468	491	513	554	1,6	2
IBS 185	185	407	470	499	526	552	576	622	1,6	
IBSBR 185	185	416	480	509	537	563	588	635	1,6	2
IBS 240	240	488	563	598	630	661	690	745	1,6	
IBSBR 240	240	556	642	681	718	753	786	849	1,6	2

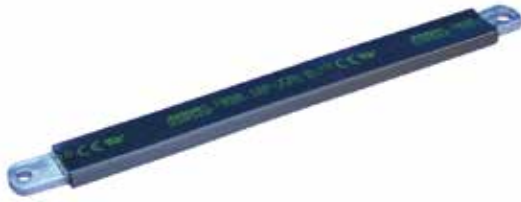
ADMISSIBLE CURRENTS: This table indicates the temperature rise produced by chosen current in the given section.

This calculation does not take into account the heat dissipation from the switch gear.

Assembly Instructions



IBSB/IBSBR INSULATED BRAIDED CONDUCTOR FOR CIRCUIT BREAKERS



INDUSTRY STANDARDS

Certification Details: UL 67, UL 758

CSA C22.2 No. 0 and 210

Complies With: IEC 60439.1, IEC 61439.1, IEC 61439.1 Class II

APPLICATION

IBSB/IBSBR is the ideal ready-to-install flexible wire replacement solution that is specifically designed for connections to all molded case circuit breakers, including the most compact breakers on the market. It connects to the front access terminals of the breakers without any additional accessories, such as angular connectors, spreaders, ring terminal connectors or extenders. IBSB/IBSBR is available in cross section of 25 to 240 mm² (49.34 to 273.65 kcmil), lengths from 230 to 1,030 mm (9.06" to 40.55"), and 80 to 350 A tinned and 400 to 630 A bare (red) copper.

Manufactured in an ISO 9001 certified proprietary automated facility, IBSB/IBSBR is formed by weaving high-quality electrolytic copper wire to form a durable low voltage connector with maximum flexibility that allows for more compact power connections to circuit breakers. The IBSB/IBSBR allows users to reduce the total size and weight of the installation, improving both design flexibility and assembly aesthetics.

The IBSB/IBSBR features integral pre-punched palms that are ready to connect out of the box. There are no lugs to purchase or install, making connections simpler and faster and eliminating faulty connections due to vibration or fatigue. The insulation is a high-resistance self-extinguishing PVC.

IBSB/IBSBR is compatible with all major brand molded case circuit breakers. Contact your Pentair representative to determine the correct size for your application.

FEATURES

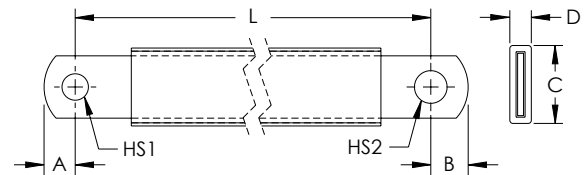
- Suitable for all main molded case circuit breakers
- Resistant to vibration, improving reliability and performance
- Improves assembly flexibility and aesthetics
- Quick and easy installation
- No additional cutting, stripping, crimping and punching needed
- Integral palm without lugs or terminals reduces material and assembly weight
- Small wire diameter provides maximum flexibility
- RoHS compliant

SPECIFICATIONS

- Dielectric Strength: 20 kV/mm
- Flammability Rating: UL 94V-0
- Max Working Voltage, IEC/UL 758: 1,000 VAC, 1,500 VDC
- Max Working Voltage, UL 67: 600 VAC/DC
- Working Temperature: 221 °F Max
- Wire Diameter: 0.006"
- Complies With: IEC 60439.1, IEC 61439.1, IEC 61439.1 Class II
- Material: Copper, Polyvinylchloride

FINISH

- Tinned or bare as noted



Typical Application Current Rating: 125 – 160 A – Finish: Tinned

Catalog Number	Cross Section (kcmil)	Conductor Width (in.)	Conductor Thickness (in.)	L (in.)	A (in.)	B (in.)	C (in.)	D (in.)	HS1 (in.)	HS2 (in.)	Qty.
IBSB25230	49.34	0.47	0.11	9.06	0.3	0.3	0.71	0.35	0.26	0.26	10
IBSB25330	49.34	0.47	0.11	12.99	0.3	0.3	0.71	0.35	0.26	0.26	10
IBSB25430	49.34	0.47	0.11	16.93	0.3	0.3	0.71	0.35	0.26	0.26	10
IBSB25530	49.34	0.47	0.11	20.87	0.3	0.3	0.71	0.35	0.26	0.26	10
IBSB25630	49.34	0.47	0.11	24.8	0.3	0.3	0.71	0.35	0.26	0.26	10
IBSB25830	49.34	0.47	0.11	32.68	0.3	0.3	0.71	0.35	0.26	0.26	10
IBSB251030	49.34	0.47	0.11	40.55	0.3	0.3	0.71	0.35	0.26	0.26	10

Typical Application Current Rating: 250 A – Finish: Tinned

Catalog Number	Cross Section (kcmil)	Conductor Width (in.)	Conductor Thickness (in.)	L (in.)	A (in.)	B (in.)	C (in.)	D (in.)	HS1 (in.)	HS2 (in.)	Qty.
IBSB50230	98.68	0.79	0.12	9.06	0.35	0.43	1.06	0.35	0.33	0.41	10
IBSB50330	98.68	0.79	0.12	12.99	0.35	0.43	1.06	0.35	0.33	0.41	10
IBSB50430	98.68	0.79	0.12	16.93	0.35	0.43	1.06	0.35	0.33	0.41	10
IBSB50530	98.68	0.79	0.12	20.87	0.35	0.43	1.06	0.35	0.33	0.41	10
IBSB50630	98.68	0.79	0.12	24.8	0.35	0.43	1.06	0.35	0.33	0.41	10
IBSB50830	98.68	0.79	0.12	32.68	0.35	0.43	1.06	0.35	0.33	0.41	10
IBSB501030	98.68	0.79	0.12	40.55	0.35	0.43	1.06	0.35	0.33	0.41	10

Typical Application Current Rating: 300 A – Finish: Tinned

Catalog Number	Cross Section (kcmil)	Conductor Width (in.)	Conductor Thickness (in.)	L (in.)	A (in.)	B (in.)	C (in.)	D (in.)	HS1 (in.)	HS2 (in.)	Qty.
IBSB70230	138.15	0.79	0.17	9.06	0.35	0.43	1.06	0.43	0.33	0.41	10
IBSB70330	138.15	0.79	0.17	12.99	0.35	0.43	1.06	0.43	0.33	0.41	10
IBSB70430	138.15	0.79	0.17	16.93	0.35	0.43	1.06	0.43	0.33	0.41	10
IBSB70530	138.15	0.79	0.17	20.87	0.35	0.43	1.06	0.43	0.33	0.41	10
IBSB70630	138.15	0.79	0.17	24.8	0.35	0.43	1.06	0.43	0.33	0.41	10
IBSB70830	138.15	0.79	0.17	32.68	0.35	0.43	1.06	0.43	0.33	0.41	10
IBSB701030	138.15	0.79	0.17	40.55	0.35	0.43	1.06	0.43	0.33	0.41	10

Typical Application Current Rating: 350 A – Finish: Tinned

Catalog Number	Cross Section (kcmil)	Conductor Width (in.)	Conductor Thickness (in.)	L (in.)	A (in.)	B (in.)	C (in.)	D (in.)	HS1 (in.)	HS2 (in.)	Qty.
IBSB100230	197.35	0.94	0.2	9.06	0.35	0.43	1.22	0.51	0.33	0.41	10
IBSB100330	197.35	0.94	0.2	12.99	0.35	0.43	1.22	0.51	0.33	0.41	10
IBSB100430	197.35	0.94	0.2	16.93	0.35	0.43	1.22	0.51	0.33	0.41	10
IBSB100530	197.35	0.94	0.2	20.87	0.35	0.43	1.22	0.51	0.33	0.41	10
IBSB100630	197.35	0.94	0.2	24.8	0.35	0.43	1.22	0.51	0.33	0.41	10
IBSB100830	197.35	0.94	0.2	32.68	0.35	0.43	1.22	0.51	0.33	0.41	10
IBSB1001030	197.35	0.94	0.2	40.55	0.35	0.43	1.22	0.51	0.33	0.41	10

Typical Application Current Rating: 400 A – Finish: Bare

Catalog Number	Cross Section (kcmil)	Conductor Width (in.)	Conductor Thickness (in.)	L (in.)	A (in.)	B (in.)	C (in.)	D (in.)	HS1 (in.)	HS2 (in.)	Qty.
IBSBR120230	236.82	1.26	0.17	9.06	0.43	0.43	1.54	0.47	0.41	0.41	2
IBSBR120330	236.82	1.26	0.17	12.99	0.43	0.43	1.54	0.47	0.41	0.41	2
IBSBR120430	236.82	1.26	0.17	16.93	0.43	0.43	1.54	0.47	0.41	0.41	2
IBSBR120530	236.82	1.26	0.17	20.87	0.43	0.43	1.54	0.47	0.41	0.41	2
IBSBR120630	236.82	1.26	0.17	24.8	0.43	0.43	1.54	0.47	0.41	0.41	2
IBSBR120830	236.82	1.26	0.17	32.68	0.43	0.43	1.54	0.47	0.41	0.41	2
IBSBR1201030	236.82	1.26	0.17	40.55	0.43	0.43	1.54	0.47	0.41	0.41	2

Typical Application Current Rating: 500 A – Finish: Bare

Catalog Number	Cross Section (kcmil)	Conductor Width (in.)	Conductor Thickness (in.)	L (in.)	A (in.)	B (in.)	C (in.)	D (in.)	HS1 (in.)	HS2 (in.)	Qty.
IBSBR185330	365.10	1.26	0.28	12.99	0.47	0.55	1.54	0.63	0.41	0.49	2
IBSBR185430	365.10	1.26	0.28	16.93	0.47	0.55	1.54	0.63	0.41	0.49	2
IBSBR185530	365.10	1.26	0.28	20.87	0.47	0.55	1.54	0.63	0.41	0.49	2
IBSBR185630	365.10	1.26	0.28	24.80	0.47	0.55	1.54	0.63	0.41	0.49	2
IBSBR185830	365.10	1.26	0.28	32.68	0.47	0.55	1.54	0.63	0.41	0.49	2
IBSBR1851030	365.10	1.26	0.28	40.55	0.47	0.55	1.54	0.63	0.41	0.49	2

Typical Application Current Rating: 630 A – Finish: Bare

Catalog Number	Cross Section (kcmil)	Conductor Width (in.)	Conductor Thickness (in.)	L (in.)	A (in.)	B (in.)	C (in.)	D (in.)	HS1 (in.)	HS2 (in.)	Qty.
IBSBR240330	473.65	1.26	0.36	12.99	0.47	0.55	1.54	0.73	0.41	0.49	2
IBSBR240430	473.65	1.26	0.36	16.93	0.47	0.55	1.54	0.73	0.41	0.49	2
IBSBR240530	473.65	1.26	0.36	20.87	0.47	0.55	1.54	0.73	0.41	0.49	2
IBSBR240630	473.65	1.26	0.36	24.8	0.47	0.55	1.54	0.73	0.41	0.49	2
IBSBR240830	473.65	1.26	0.36	32.68	0.47	0.55	1.54	0.73	0.41	0.49	2
IBSBR2401030	473.65	1.26	0.36	40.55	0.47	0.55	1.54	0.73	0.41	0.49	2

Maximum Ampacity Ratings

Cross Section (mm ² /kcmil)	ÄT 30° C (A)	ÄT 40° C (A)	ÄT 45° C (A)	ÄT 50° C (A)	ÄT 55° C (A)	ÄT 60° C (A)	ÄT 70° C (A)	2 Bar Current Coefficient	3 Bar Current Coefficient
25/49.34	116	134	142	150	157	164	177	1.6	2
50/98.68	213	246	260	274	288	301	325	1.6	2
70/138.15	226	261	277	291	306	319	345	1.6	2
100/197.35	298	344	365	385	404	422	456	1.6	2
120/236.82	363	419	444	468	491	513	554	1.6	2
185/365.1	416	480	509	537	563	588	635	1.6	2
240/473.65	556	642	681	718	753	786	849	1.6	2

Circuit Breaker Compatibility

Circuit Breaker Current Rating	125/160 A	250 A	300 A	350 A	400 A	500 A	630 A
Catalog Number	IBSB25x	IBSB50x	IBSB70x	IBSB100x	IBSBR120x	IBSBR185x	IBSBR240x
Schneider Electric® Compact® (IEC)	NSA NG 125	NSX 250	NSX 400	NSX 400	NSX 400	NSX 630	NSX 630
Square D® PowerPact® (UL)	HFrame	JFrame	LFrame	LFrame	LFrame		
ABB® Tmax® (IEC)	"T1 T2 XT1 XT2"	"T3 XT3 XT4"	T4	T4	T5	T5	T5
ABB® Tmax® (UL)	"T1 T2"	T4	T5	T5	T5		
GE® Record Plus® (IEC/UL)	FD 160	FE 250	FG 400	FG 400	FG 400	FG 630	FG 630
Siemens® Sentron® (IEC/UL)	"VL160X 3VL1 VL160 3VL2"	"VL250 3VL3"	"VL400 3VL4"	"VL400 3VL4"	"VL400 3VL4"		
Moeller® xEnergy® (IEC)	NZM1	NZM2	NZM3	NZM3	NZM3	NZM3	NZM3
Cutler Hammer® Series G (UL)	EG Frame	JG Frame	LG Frame	LG Frame	LG Frame	LG Frame	LG Frame
Legrand® (IEC)	"DPX 160 DPX3 160"	"DPX 250 DPX3 250"	DPX 630	DPX 630	DPX 630	DPX 630	DPX 630
Hager® (IEC)	h3 160	h3 250	h3 630	h3 630			

IBS FLAT INSULATED BRAIDED CONDUCTOR



INDUSTRY STANDARDS

Certification Details: UL 67, UL 758
CSA C22.2 No. 0 and 210
Complies With: IEC 60439.1, IEC 61439.1, IEC 61439.1 Class II

APPLICATION

IBS Flat Insulated Braided Conductors are the ideal ready-to-install flexible wire replacement solution. They connect directly to the front access terminals of an electrical device without the need for additional accessories, such as angular connectors, spreaders, ring terminal connectors or extenders. IBS Flat Insulated Braided Conductors are available in cross section of 25 and 50 mm² (49.34 and 98.68 kcmil), lengths from 230 to 1,030 mm (9.06" to 40.55"), and amperages ranging from 177 to 274 A.

Manufactured in an ISO 9001 certified proprietary automated facility, IBS Flat Insulated Braided Conductors are formed by weaving high-quality electrolytic copper wire to form a durable low voltage connector with maximum flexibility that allows for more compact power to electrical device. The IBS Flat Insulated Braided Conductor allows users to reduce the total size and weight of the installation, improving both design flexibility and assembly aesthetics.

The IBS Flat Insulated Braided Conductor features integral pre-punched palms that are ready to connect out of the box. There are no lugs to purchase or install, making connections simpler and faster and eliminating faulty connections due to vibration or fatigue. The insulation is a high-resistance self-extinguishing PVC.

FEATURES

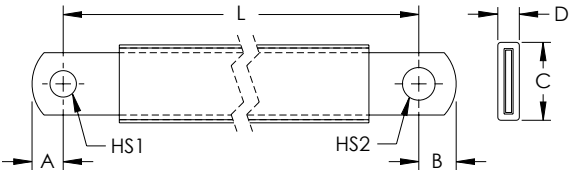
- Suitable for all main electrical devices
- Resistant to vibration, improving reliability and performance
- Improves assembly flexibility and aesthetics
- Quick and easy installation
- No additional cutting, stripping, crimping and punching needed
- Integral palm without lugs or terminals reduces material and assembly weight
- Small wire diameter provides maximum flexibility
- RoHS compliant

SPECIFICATIONS

- Dielectric Strength: 20 kV/mm
- Flammability Rating: UL 94V-0
- Max Working Voltage, IEC/UL 758: 1,000 VAC, 1,500 VDC
- Max Working Voltage, UL 67: 600 VAC/DC
- Working Temperature: 221 °F Max
- Wire Diameter: 0.006 (in.)
- Material: Copper, Polyvinylchloride

FINISH

- Finish: Tinned



Typical Application Current Rating: 160 A

Catalog Number	Cross Section (kcmil)	Conductor Width (in.)	Conductor Thickness (in.)	L (in.)	A (in.)	B (in.)	C (in.)	D (in.)	HS1 (in.)	HS2 (in.)	Qty.
IBS25230810	49.34	0.79	0.07	9.06	0.39	0.47	0.98	0.24	0.33	0.41	10
IBS25330810	49.34	0.79	0.07	12.99	0.39	0.47	0.98	0.24	0.33	0.41	10
IBS25430810	49.34	0.79	0.07	16.93	0.39	0.47	0.98	0.24	0.33	0.41	10
IBS25530810	49.34	0.79	0.07	20.87	0.39	0.47	0.98	0.24	0.33	0.41	10
IBS25630810	49.34	0.79	0.07	24.8	0.39	0.47	0.98	0.24	0.33	0.41	10
IBS25830810	49.34	0.79	0.07	32.68	0.39	0.47	0.98	0.24	0.33	0.41	10
IBS251030810	49.34	0.79	0.07	40.55	0.39	0.47	0.98	0.24	0.33	0.41	10

Typical Application Current Rating: 250 A

Catalog Number	Cross Section (kcmil)	Conductor Width (in.)	Conductor Thickness (in.)	L (in.)	A (in.)	B (in.)	C (in.)	D (in.)	HS1 (in.)	HS2 (in.)	Qty.
IBS5023010	98.68	0.79	0.15	9.06	0.47	0.47	0.98	0.3	0.41	0.41	10
IBS5033010	98.68	0.79	0.15	12.99	0.47	0.47	0.98	0.3	0.41	0.41	10
IBS5043010	98.68	0.79	0.15	16.93	0.47	0.47	0.98	0.3	0.41	0.41	10
IBS5053010	98.68	0.79	0.15	20.87	0.47	0.47	0.98	0.3	0.41	0.41	10
IBS5063010	98.68	0.79	0.15	24.8	0.47	0.47	0.98	0.3	0.41	0.41	10
IBS5083010	98.68	0.79	0.15	32.68	0.47	0.47	0.98	0.3	0.41	0.41	10
IBS50103010	98.68	0.79	0.15	40.55	0.47	0.47	0.98	0.3	0.41	0.41	10

Maximum Ampacity Ratings

Cross Section (mm ² /kcmil)	ÄT 30° C (A)	ÄT 40° C (A)	ÄT 45° C (A)	ÄT 50° C (A)	ÄT 55° C (A)	ÄT 60° C (A)	ÄT 70° C (A)	2 Bar Current Coefficient	3 Bar Current Coefficient
25/49.34	137	158	167	177	185	193	209	1.6	2
50/98.68	213	246	260	274	288	301	325	1.6	2

Circuit Breaker Compatibility

Circuit Breaker Current Rating Catalog Number	125/160 A IBS25x	250 A IBS50x
Schneider Electric® Compact® (IEC)	"NSX 100 NSX 160"	NSX 250
Square D® PowerPact® (UL)	JFrame	JFrame
ABB® Tmax® (IEC)		"T3 XT3 XT4"
ABB® Tmax® (UL)	T3	T4
GE® Record Plus® (IEC/UL)	FE 160	FE 250
Siemens® Sentron® (IEC/UL)		"VL250 3VL3"
Moeller® xEnergy® (IEC)		NZM2
Cutler Hammer® Series G (UL)	JG Frame	JG Frame
Legrand® (IEC)		"DPX 250 DPX3 250"
Hager® (IEC)		h3 250

IBS ROUND INSULATED BRAIDED CONDUCTOR



INDUSTRY STANDARDS

Certification Details: UL 67, UL 758

CSA C22.2 No. 0 and 210

Complies With: IEC 60439.1, IEC 61439.1, IEC 61439.1 Class II

APPLICATION

IBS Round Insulated Braided Conductors are the ideal ready-to-install flexible wire replacement solution. They connect to the terminals of an electrical device without the need for additional accessories, such as angular connectors, spreaders, ring terminal connectors or extenders. IBS Round Insulated Braided Conductors are available in cross sections of 120, 185 and 240 mm² (236.82, 365.10, and 473.65 kcmil), lengths from 330 to 1,030 mm (9.06" to 40.55"), and amperages ranging from 420 to 630 A.

Manufactured in an ISO 9001 certified facility, IBS Round Insulated Braided Conductors are formed by weaving high-quality electrolytic copper wire to form a durable low voltage connector with maximum flexibility that allows for more compact power connections. The IBS Round Insulated Braided Conductor allows users to reduce the total size and weight of the installation, improving both design flexibility and assembly aesthetics.

The IBS Round Insulated Braided Conductor features pre-punched palms that are ready to connect out of the box. There are no lugs to purchase or install, making connections simpler and faster and eliminating faulty connections due to vibration or fatigue. The insulation is a high-resistance self-extinguishing PVC.

FEATURES

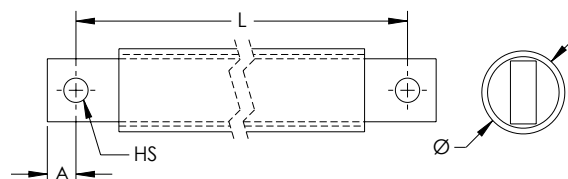
- Resistant to vibration, improving reliability and performance
- Improves assembly flexibility and aesthetics
- Quick and easy installation
- No additional cutting, stripping, crimping and punching needed
- Small wire diameter provides maximum flexibility
- RoHS compliant

SPECIFICATIONS

- Dielectric Strength: 20 kV/mm
- Flammability Rating: UL 94V-0
- Max Working Voltage, IEC/UL 758: 1,000 VAC, 1,500 VDC
- Max Working Voltage, UL 67: 600 VAC/DC
- Working Temperature: 221 °F Max
- Wire Diameter: 0.006 (in.)
- Material: Copper, Polyvinylchloride

FINISH

- Finish: Tinned



Typical Application Current Rating: 400 A

Catalog Number	Cross Section	Conductor Width (in.)	Conductor Thickness (in.)	Length L (in.)	A (in.)	Diameter Ø (in.)	Hole Size HS (in.)	Qty.
IBS12033010	236.82 kcmil	0.94	0.39	12.99	0.47	1.06	0.41	2
IBS12043010	236.82 kcmil	0.94	0.39	16.93	0.47	1.06	0.41	2
IBS12053010	236.82 kcmil	0.94	0.39	20.87	0.47	1.06	0.41	2
IBS12063010	236.82 kcmil	0.94	0.39	24.80	0.47	1.06	0.41	2
IBS12083010	236.82 kcmil	0.94	0.39	32.68	0.47	1.06	0.41	2
IBS120103010	236.82 kcmil	0.94	0.39	40.55	0.47	1.06	0.41	2

Typical Application Current Rating: 500 A

Catalog Number	Cross Section	Conductor Width (in.)	Conductor Thickness (in.)	Length L (in.)	A (in.)	Diameter Ø (in.)	Hole Size HS (in.)	Qty.
IBS18533010	365.10 kcmil	0.94	0.59	12.99	0.47	1.22	0.41	2
IBS18543010	365.10 kcmil	0.94	0.59	16.93	0.47	1.22	0.41	2
IBS18553010	365.10 kcmil	0.94	0.59	20.87	0.47	1.22	0.41	2
IBS18563010	365.10 kcmil	0.94	0.59	24.80	0.47	1.22	0.41	2
IBS18583010	365.10 kcmil	0.94	0.59	32.68	0.47	1.2	0.41	2
IBS185103010	365.10 kcmil	0.94	0.59	40.55	0.47	1.22	0.41	2

Typical Application Current Rating: 630 A

Catalog Number	Cross Section	Conductor Width (in.)	Conductor Thickness (in.)	Length L (in.)	A (in.)	Diameter Ø (in.)	Hole Size HS (in.)	Qty.
IBS24033012	473.65 kcmil	1.26	0.59	12.99	0.51	1.42	0.49	2
IBS24043012	473.65 kcmil	1.26	0.59	16.93	0.51	1.42	0.49	2
IBS24053012	473.65 kcmil	1.26	0.59	20.87	0.51	1.42	0.49	2
IBS24063012	473.65 kcmil	1.26	0.59	24.80	0.51	1.42	0.49	2
IBS24083012	473.65 kcmil	1.26	0.59	32.68	0.51	1.42	0.49	2
IBS240103012	473.65 kcmil	1.26	0.59	40.55	0.51	1.42	0.49	2

Maximum Ampacity Ratings

"Cross Section (mm ² /kcmil)"	ÄT 30° C (A)	ÄT 40° C (A)	ÄT 45° C (A)	ÄT 50° C (A)	ÄT 55° C (A)	ÄT 60° C (A)	ÄT 70° C (A)	2 Bar Current Coefficient
120/236.82	325	376	398	420	441	460	497	1.6
185/365.10	407	470	499	526	552	576	622	1.6
240/473.65	488	563	598	630	661	690	745	1.6

MBJ GROUNDING AND BONDING BRAID, TINNED COPPER



INDUSTRY STANDARDS

UL Listed UL467

- Complies With: IEC 60439.1, IEC 61439.1

APPLICATION

MBJ Grounding and Bonding Braids are a reliable and convenient grounding solution for applications that require flexibility and durability. The tinned copper ground braids with massivated palms come ready to install without any additional cutting, stripping, crimping or punching and do not require the addition of tin or crimped lugs. The proprietary manufacturing process optimizes the electrical contact between each wire and helps eliminate moisture issues in the palms, preventing corrosion and lengthening the useful life of the braid.

FEATURES

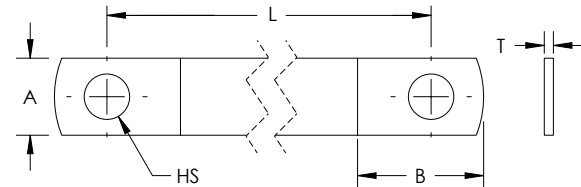
- Complete range of earth/ground flexible connections from 6 - 100 mm² (11.84 - 197.35 kcmil) cross section and from 100 - 500 mm (3.937" - 19.685") length
- Integral palm, without tin or crimped lugs for superior electrical contact and tensile strength resistance
- Resistant to vibration and fatigue, reducing maintenance
- Provides weight savings, material savings and lower impedance when compared to similar lugged cables with insulation
- Ready to use out of the box, eliminates the need for cutting, stripping, crimping and punching
- Quick and easy to install
- Recommended by the EMC/EMI directives and less impedance than cables
- GOST compliant
- RoHS compliant

SPECIFICATIONS

- Working Temperature: 221 °F Max
- Material: Copper

FINISH

- Finish: Tinned



Catalog Number	Intensity	Thickness T (in.)	Cross Section	Length L (in.)	Hole Size HS (in.)	A (in.)	B (in.)	Unit Weight (lb.)	Qty.
MBJ61506	40 A	0.043	11.84 kcmil	5.906"	0.256"	0.433	0.709	0.022	10
MBJ62006	40 A	0.043	11.84 kcmil	7.874	0.256	0.433	0.709	0.037	10
MBJ102006	75 A	0.043	19.74 kcmil	7.874	0.256	0.433	0.709	0.048	10
MBJ103006	75 A	0.043	19.74 kcmil	11.811	0.256	0.433	0.709	0.073	10
MBJ161006	120 A	0.059	31.57 kcmil	3.937	0.256	0.591	0.787	0.040	10
MBJ161008	120 A	0.059	31.57 kcmil	3.937	0.335	0.591	0.787	0.040	10
MBJ161506	120 A	0.059	31.57 kcmil	5.906	0.256	0.591	0.787	0.077	10
MBJ161508	120 A	0.059	31.57 kcmil	5.906	0.335	0.591	0.787	0.077	10
MBJ162006	120 A	0.059	31.57 kcmil	7.874	0.256	0.591	0.787	0.073	10
MBJ162008	120 A	0.059	31.57 kcmil	7.874	0.335	0.591	0.787	0.073	10
MBJ162508	120 A	0.059	31.57 kcmil	9.843	0.335	0.591	0.787	0.088	10
MBJ163006	120 A	0.059	31.57 kcmil	11.811	0.256	0.591	0.787	0.110	10
MBJ163008	120 A	0.059	31.57 kcmil	11.811	0.335	0.591	0.787	0.110	10
MBJ165008	120 A	0.059	31.57 kcmil	19.685	0.335	0.591	0.787	0.180	10
MBJ2510010	150 A	0.059	49.34 kcmil	3.937	0.413	0.866	1.102	0.059	10
MBJ2515010	150 A	0.059	49.34 kcmil	5.906	0.413	0.866	1.102	0.086	10
MBJ252006	150 A	0.059	49.34 kcmil	7.874	0.256	0.866	1.102	0.114	10
MBJ2520010	150 A	0.059	49.34 kcmil	7.874	0.413	0.866	1.102	0.114	10
MBJ2520012	150 A	0.059	49.34 kcmil	7.874	0.492	0.866	1.102	0.114	10
MBJ2525010	150 A	0.059	49.34 kcmil	9.843	0.413	0.866	1.102	0.141	10
MBJ2530010	150 A	0.059	49.34 kcmil	11.811	0.413	0.866	1.102	0.169	10
MBJ2550010	150 A	0.059	49.34 kcmil	19.685	0.413	0.866	1.102	0.286	10

Catalog Number	Intensity	Thickness T (in.)	Cross Section	Length L (in.)	Hole Size HS (in.)	A (in.)	B (in.)	Unit Weight (lb.)	Qty.
MBJ3010010	180 A	0.079	59.20 kcmil	3.937	0.413	0.866	1.102	0.070	10
MBJ3015010	180 A	0.079	59.20 kcmil	5.906	0.413	0.866	1.102	0.103	10
MBJ3020010	180 A	0.079	59.20 kcmil	7.874	0.413	0.866	1.102	0.136	10
MBJ3025010	180 A	0.079	59.20 kcmil	9.843	0.413	0.866	1.102	0.165	10
MBJ3030010	180 A	0.079	59.20 kcmil	11.811	0.413	0.866	1.102	0.202	10
MBJ3050010	180 A	0.079	59.20 kcmil	19.685	0.413	0.866	1.102	0.341	10
MBJ3525025	197 A	0.059	69.07 kcmil	9.843	1.004	1.575	1.772	0.196	10
MBJ3510010	197 A	0.083	69.07 kcmil	3.937	0.413	0.866	1.102	0.081	10
MBJ3515010	197 A	0.083	69.07 kcmil	5.906	0.413	0.866	1.102	0.119	10
MBJ3520010	197 A	0.083	69.07 kcmil	7.874	0.413	0.866	1.102	0.158	10
MBJ3525010	197 A	0.083	69.07 kcmil	9.843	0.413	0.866	1.102	0.196	10
MBJ3530010	197 A	0.083	69.07 kcmil	11.811	0.413	0.866	1.102	0.242	10
MBJ3550010	197 A	0.083	69.07 kcmil	19.685	0.413	0.866	1.102	0.396	10
MBJ5010010	250 A	0.098	98.68 kcmil	3.937	0.413	1.102	1.300	0.114	10
MBJ5015010	250 A	0.098	98.68 kcmil	5.906	0.413	1.102	1.300	0.169	10
MBJ502006	250 A	0.098	98.68 kcmil	7.874	0.256	1.102	1.300	0.264	10
MBJ5020010	250 A	0.098	98.68 kcmil	7.874	0.413	1.102	1.300	0.264	10
MBJ5020012	250 A	0.098	98.68 kcmil	7.874	0.492	1.102	1.300	0.264	10
MBJ5020016	250 A	0.098	98.68 kcmil	7.874	0.650	1.102	1.300	0.242	10
MBJ5020018	250 A	0.098	98.68 kcmil	7.874	0.728	1.102	1.300	0.242	10
MBJ5025010	250 A	0.098	98.68 kcmil	9.843	0.413	1.102	1.300	0.279	10
MBJ503006	250 A	0.098	98.68 kcmil	11.811	0.256	1.102	1.300	0.330	10
MBJ5030010	250 A	0.098	98.68 kcmil	11.811	0.413	1.102	1.300	0.337	10
MBJ5030016	250 A	0.098	98.68 kcmil	11.811	0.650	1.102	1.300	0.330	10
MBJ5030018	250 A	0.098	98.68 kcmil	11.811	0.728	1.102	1.300	0.308	10
MBJ5050010	250 A	0.098	98.68 kcmil	19.685	0.413	1.102	1.300	0.561	10
MBJ5050012	250 A	0.098	98.68 kcmil	19.685	0.492	1.102	1.300	0.561	10
MBJ7030022	290 A	0.110	138.15 kcmil	11.811	0.886	1.575	1.772	0.440	10
MBJ703006	290 A	0.133	138.15 kcmil	11.811	0.256	1.102	1.300	0.462	10
MBJ7030010	290 A	0.133	138.15 kcmil	11.811	0.413	1.102	1.300	0.462	10
MBJ7030012	290 A	0.133	138.15 kcmil	11.811	0.492	1.102	1.300	0.462	10
MBJ7030016	290 A	0.133	138.15 kcmil	11.811	0.650	1.102	1.300	0.440	10
MBJ7050010	290 A	0.133	138.15 kcmil	19.685	0.413	1.102	1.300	0.748	10
MBJ10025016	349 A	0.157	197.35 kcmil	9.843	0.650	1.969	2.165	0.559	10
MBJ10025030	349 A	0.157	197.35 kcmil	9.843	1.201	1.969	2.165	0.559	10
MBJ10050016	349 A	0.157	197.35 kcmil	19.685	0.650	1.969	2.165	1.118	10
MBJ10050030	349 A	0.157	197.35 kcmil	19.685	1.201	1.969	2.165	1.118	10

CPI GROUNDING AND BONDING BRAID, STAINLESS STEEL



INDUSTRY STANDARDS

UL Listed, File No. 467

Complies With: IEC 60439.1, IEC 61439.1

APPLICATION

High-quality CPI stainless steel grounding and bonding braids can be installed in extremely corrosive environments, like offshore applications or coastal applications. The full range of CPI braids are ideal for applications using stainless steel pipe or tanks, like the food and beverage industry, building industry, transportation, oil and chemical industry.

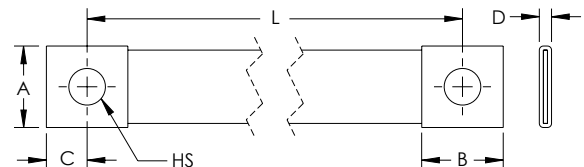
Hoffman offers 316L stainless steel braids and lugs, one of the highest resistant stainless steel options on the market. Proprietary manufacturing process has been optimized to provide the best braiding, crimping, cutting and punching.

FEATURES

- Superior abrasion, corrosion, chemical and UV resistance make CPI braids ideal for outdoor applications
- Great for expansion joints where constant movement requires a flexible and durable solution
- Ready to use out of the box, eliminates the need for cutting, stripping, crimping and punching
- Quick and easy to install
- Resistant to vibration and fatigue, reducing maintenance
- Will not rust or discolor, so the appearance will never fade or change
- Excellent electrical contact
- No additional lugs or terminals needed
- Non-magnetic material
- Recommended by the EMC/EMI directives
- GOST compliant
- RoHS compliant

SPECIFICATIONS

- Material: Stainless Steel 316L (EN 1.4404)



Catalog Number	Cross Section	Length L (in.)	Hole Size HS (in.)	A (in.)	B (in.)	C (in.)	D (in.)	Unit Weight (lb.)	Qty.
CPI161508	31.57 kcmil	5.906	0.335	0.689	0.787	0.394	0.118	0.068	10
CPI162008	31.57 kcmil	7.874	0.335	0.689	0.787	0.394	0.118	0.082	10
CPI162508	31.57 kcmil	9.843	0.335	0.689	0.787	0.394	0.118	0.095	10
CPI163008	31.57 kcmil	11.811	0.335	0.689	0.787	0.394	0.118	0.11	10
CPI164008	31.57 kcmil	15.748	0.335	0.689	0.787	0.394	0.118	0.137	10
CPI166008	31.57 kcmil	23.622	0.335	0.689	0.787	0.394	0.118	0.192	10
CPI2515010	49.34 kcmil	5.906	0.413	1.043	1.181	0.591	0.138	0.128	10
CPI2520010	49.34 kcmil	7.874	0.413	1.043	1.181	0.591	0.138	0.15	10
CPI2525010	49.34 kcmil	9.843	0.413	1.043	1.181	0.591	0.138	0.172	10
CPI2530010	49.34 kcmil	11.811	0.413	1.043	1.181	0.591	0.138	0.194	10
CPI2540010	49.34 kcmil	15.748	0.413	1.043	1.181	0.591	0.138	0.238	10
CPI2560010	49.34 kcmil	23.622	0.413	1.043	1.181	0.591	0.138	0.324	10
CPI3515012	69.07 kcmil	5.906	0.512	1.043	1.181	0.591	0.157	0.157	10
CPI3520012	69.07 kcmil	7.874	0.512	1.043	1.181	0.591	0.157	0.187	10
CPI3525012	69.07 kcmil	9.843	0.512	1.043	1.181	0.591	0.157	0.218	10
CPI3530012	69.07 kcmil	11.811	0.512	1.043	1.181	0.591	0.157	0.247	10
CPI3540012	69.07 kcmil	15.748	0.512	1.043	1.181	0.591	0.157	0.309	10
CPI3560012	69.07 kcmil	23.622	0.512	1.043	1.181	0.591	0.157	0.43	10
CPI5015012	98.68 kcmil	5.906	0.512	1.181	1.181	0.591	0.197	0.245	10
CPI5020012	98.68 kcmil	7.874	0.512	1.181	1.181	0.591	0.197	0.287	10
CPI5025012	98.68 kcmil	9.843	0.512	1.181	1.181	0.591	0.197	0.331	10
CPI5030012	98.68 kcmil	11.811	0.512	1.181	1.181	0.591	0.197	0.375	10
CPI5040012	98.68 kcmil	15.748	0.512	1.181	1.181	0.591	0.197	0.461	10
CPI5060012	98.68 kcmil	23.622	0.512	1.181	1.181	0.591	0.197	0.635	10

Catalog Number	Cross Section	Length L (in.)	Hole Size HS (in.)	A (in.)	B (in.)	C (in.)	D (in.)	Unit Weight (lb.)	Qty.
CPI70110012	138.15 kcmil	43.307	0.512	1.181	1.181	0.591	0.228	1.464	10
CPI7015012	138.15 kcmil	5.906	0.512	1.181	1.181	0.591	0.228	0.306	10
CPI7020012	138.15 kcmil	7.874	0.512	1.181	1.181	0.591	0.228	0.368	10
CPI7025012	138.15 kcmil	9.843	0.512	1.181	1.181	0.591	0.228	0.428	10
CPI7030012	138.15 kcmil	11.811	0.512	1.181	1.181	0.591	0.228	0.489	10
CPI7040012	138.15 kcmil	15.748	0.512	1.181	1.181	0.591	0.228	0.611	10
CPI7060012	138.15 kcmil	23.622	0.512	1.181	1.181	0.591	0.228	0.855	10
CPI7080012	138.15 kcmil	31.496	0.512	1.181	1.181	0.591	0.228	1.098	10

BJ ROUND BRAID WITH CRIMPED LUGS

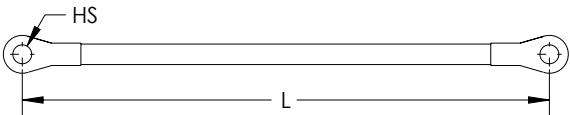


SPECIFICATIONS

- Material: Copper
- Working Temperature: 221 °F Max

FINISH

- Finish: Tinned

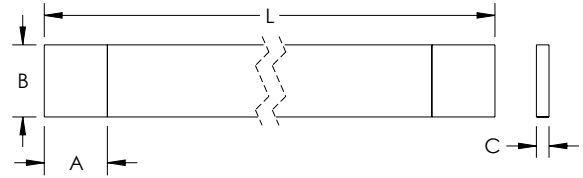


FEATURES

- Ready to use out of the box, saving installation time and labor
- Recommended by the EMC directives
- Allows for bending very close to the contact area
- RoHS compliant

Catalog Number	Intensity	Cross Section	Length L (in.)	Wire Diameter (in.)	Hole Size HS (in.)	Unit Weight(lb.)	Qty.
BJ6150S	45 A	11.84 kcmil	5.91	0.006	0.26	0.02	10
BJ6200S	45 A	11.84 kcmil	7.87	0.006	0.26	0.03	10
BJ10300S	75 A	19.74 kcmil	11.81	0.006	0.26	0.07	10

PBC BRAIDED POWER SHUNT



FEATURES

- Ideal for transformer-busduct link
- Undrilled palms can be customize by power press to fit customer specific designs
- Extra flexible power connection and good resistance to vibration

SPECIFICATIONS

- Wire Diameter: 0.006 (in.)
- Material: Copper

FINISH

- Finish: Tinned

Catalog Number	Cross Section	.T 30 K	.T 50 K	Length L (in.)	A (in.)	B (in.)	C (in.)	2 Bar Current Coefficient	Qty.
PBC100X250	197.35 kcmil	349 A	462 A	9.84	1.38	1.58	0.28	1.72	2
PBC100X500	197.35 kcmil	349 A	462 A	19.7	1.38	1.58	0.28	1.72	2
PBC120X250	236.82 kcmil	385 A	511 A	9.84	1.38	1.58	0.3	1.72	2
PBC150X250	296.03 kcmil	440 A	583 A	9.84	2.17	1.97	0.32	1.72	2
PBC150X500	296.03 kcmil	440 A	583 A	19.7	2.17	1.97	0.32	1.72	2
PBC200X250	394.70 kcmil	550 A	729 A	9.84	2.17	1.97	0.35	1.72	2
PBC200X500	394.70 kcmil	550 A	729 A	19.7	2.17	1.97	0.35	1.72	2
PBC250X300	493.38 kcmil	651 A	863 A	11.8	3.35	1.97	0.41	1.72	2
PBC300X400	592.06 kcmil	716 A	948 A	15.75	3.35	2.36	0.43	1.65	2
PBC400X400	789.41 kcmil	853 A	1,131 A	15.75	3.35	3.15	0.43	1.6	2
PBC500X400	986.76 kcmil	917 A	1,216 A	15.75	4.13	3.94	0.43	1.65	2
PBC600X450	1,184.12 kcmil	1,101 A	1,459 A	17.7	4.13	3.94	0.51	1.6	2
PBC800X450	1,578.82 kcmil	1,376 A	1,823 A	17.7	4.13	3.94	0.55	1.6	2
PBC1000X450	1,973.52 kcmil	1,651 A	2,188 A	17.7	4.13	3.94	0.63	1.6	2
PBC1200X500	2,368.23 kcmil	1,982 A	2,626 A	19.7	4.92	4.72	0.69	1.6	2

When used in parallel, the two shunts must be spaced with a minimum distance equal to the thickness of the shunt to allow air cooling.

FTCB FLAT BRAID IN COIL, TINNED COPPER



INDUSTRY STANDARDS

UL Recognized

SPECIFICATIONS

- Material: Copper

FINISH

- Finish: Tinned

Wire Diameter: 0.006 (in.)

Catalog Number	Nominal Current	Cross Section	Number of Wires	Length (ft.)	Thickness (in.)	Width (in.)	Unit Weight (lb.)	Qty.
FTCB153	30 A	5.92 kcmil	168	82	0.04	0.2	0.07	1
FTCB155	45 A	9.87 kcmil	288	82	0.04	0.3	0.11	1
FTCB158	65 A	15.78 kcmil	456	82	0.06	0.3	0.18	1
FTCB1510	75 A	19.74 kcmil	576	82	0.06	0.4	0.22	1
FTCB1516	120 A	31.57 kcmil	896	82	0.06	0.6	0.35	1
FTCB1520	140 A	39.47 kcmil	1,120	82	0.06	0.8	0.44	1
FTCB1525	150 A	49.34 kcmil	1,404	82	0.06	0.9	0.55	1
FTCB1530	180 A	59.20 kcmil	1,692	82	0.08	0.9	0.66	1
FTCB1535	200 A	69.07 kcmil	1,980	82	0.1	0.9	0.77	1
FTCB1540	220 A	78.94 kcmil	2,272	82	0.1	1	0.88	1
FTCB1550	250 A	98.68 kcmil	2,848	82	0.12	1.1	1.1	1
FTCB1560	280 A	118.41 kcmil	3,392	82	0.12	1.2	1.32	1
FTCB1570	290 A	138.15 kcmil	3,968	82	0.14	1.2	1.54	1
FTCB1575	300 A	148.01 kcmil	4,256	82	0.16	1.2	1.65	1
FTCB15100	360 A	197.35 kcmil	5,664	82	0.16	1.6	2.2	1

Wire Diameter: 0.008(in.)

Catalog Number	Nominal Current	Cross Section	Number of Wires	Length (ft.)	Thickness (in.)	Width (in.)	Unit Weight (lb.)	Qty.
FTCB205	45 A	9.87 kcmil	168	1,640	0.04	0.3	0.11	1
FTCB2010	75 A	19.74 kcmil	312	492	0.06	0.4	0.22	1
FTCB2016	120 A	31.57 kcmil	512	492	0.08	0.6	0.35	1
FTCB2025	150 A	49.34 kcmil	792	328	0.06	1	0.55	1

When used in parallel, the two shunts must be spaced with a minimum distance equal to the thickness of the shunt to allow air cooling.

FRCB FLAT BRAID IN COIL, PLAIN COPPER

FEATURES

- Braids in coil are mainly used for power distribution or earthing applications
- Non-magnetic material

SPECIFICATIONS

- Material: Copper

Catalog Number	Nominal Current	Cross Section	Number of Wires	Wire Diameter (in.)	Length (ft.)	Thickness (in.)	Width (in.)	Unit Weight (lb.)	Qty.
FRCB153	30 A	5.92 kcmil	168	0.006	82	0.04	0.2	0.07	1
FRCB155	45 A	9.87 kcmil	288	0.006	82	0.04	0.3	0.11	1
FRCB158	65 A	15.78 kcmil	456	0.006	82	0.06	0.3	0.18	1
FRCB1510	75 A	19.74 kcmil	576	0.006	82	0.06	0.4	0.22	1
FRCB1516	120 A	31.57 kcmil	896	0.006	82	0.06	0.6	0.35	1
FRCB1520	140 A	39.47 kcmil	1,120	0.006	82	0.06	0.8	0.44	1
FRCB1525	150 A	49.34 kcmil	1,404	0.006	82	0.06	0.9	0.55	1
FRCB1530	180 A	59.20 kcmil	1,692	0.006	82	0.08	0.9	0.66	1
FRCB1535	200 A	69.07 kcmil	1,980	0.006	82	0.1	0.9	0.77	1
FRCB1540	220 A	78.94 kcmil	2,272	0.006	82	0.1	1	0.88	1
FRCB1550	250 A	98.68 kcmil	2,848	0.006	82	0.12	1.1	1.1	1
FRCB1560	280 A	118.41 kcmil	3,392	0.006	82	0.12	1.2	1.32	1
FRCB1570	290 A	138.15 kcmil	3,968	0.006	82	0.14	1.2	1.54	1
FRCB1575	300 A	148.01 kcmil	4,256	0.006	82	0.16	1.2	1.65	1
FRCB15100	360 A	197.35 kcmil	5,664	0.006	82	0.16	1.6	2.2	1

Unit weight is per meter (3.28 ft.).

FTCBI INSULATED FLAT BRAID IN COIL, TINNED COPPER



FEATURES

- Braids in coil are mainly used for power distribution or earthing applications
- Non-magnetic material
- Tinned finish provides a theft-deterrent appearance

SPECIFICATIONS

- Material: Copper, Polyvinylchloride

FINISH

- Finish: Tinned

Catalog Number	Nominal Current	Cross Section	Number of Wires	Wire Diameter (in.)	Length (in.)	Thickness (in.)	Width (in.)	Unit Weight (lb.)	Qty.
FTCBI16	120 A	31.57 kcmil	896	0.006	82	0.14	0.7	0.4	1
FTCBI1516	120 A	31.57 kcmil	896	0.006	328	0.14	0.7	0.4	1
FTCBI25	150 A	49.34 kcmil	1,404	0.006	82	0.14	1	0.64	1
FTCBI1525	150 A	49.34 kcmil	1,404	0.006	328	0.14	1	0.64	1
FTCBI35	200 A	69.07 kcmil	1,980	0.006	82	0.18	1	0.88	1
FTCBI50	250 A	98.68 kcmil	2,848	0.006	82	0.2	1.2	1.32	1

Insulation Thickness (in.)	Insulation Voltage	Temperature	Flammability Rating
0.04	450 V	158 °F Max	UL 94V0

Unit weight is per meter (3.28 ft.).

FSSB FLAT BRAID IN COIL, STAINLESS STEEL



INDUSTRY STANDARDS

UL Recognized

FEATURES

- High-quality durable stainless steel 316L provides superior abrasion, corrosion, chemical, and UV resistance for outdoor and corrosive applications
- Non-magnetic material
- Duribility of product lengthens cycle time between maintainance

SPECIFICATIONS

- Material: Stainless Steel 316L (EN 1.4404)

Catalog Number	Cross Section	Wire Diameter (in.)	Length (ft.)	Thickness (in.)	Width (in.)	Unit Weight(lb.)	Qty.
FSSB2516	31.57 kcmil	0.01	82	0.06	0.6	0.3	1
FSSB2525	49.34 kcmil	0.01	82	0.06	0.9	0.49	1
FSSB2550	98.68 kcmil	0.01	82	0.12	1.2	0.97	1

Unit weight is per meter (3.28 ft.).

RTCB ROUND BRAID IN COIL, TINNED COPPER



INDUSTRY STANDARDS

UL Recognized

SPECIFICATIONS

- Material: Copper

FINISH

- Finish: Tinned

Catalog Number	Nominal Current	Cross Section	Number of Wires	Wire Diameter (in.)	Length (ft.)	Diameter (in.)	Unit Weight (lb.)	Qty.
RTCB156	45 A	11.84 kcmil	352	0.006	82	0.157	0.13	1
RTCB158	65 A	15.78 kcmil	464	0.006	82	0.177	0.18	1
RTCB1510	75 A	19.74 kcmil	560	0.006	82	0.197	0.22	1
RTCB1510HL	75 A	19.74 kcmil	560	0.006	328	0.197	0.22	1
RTCB1516	120 A	31.57 kcmil	900	0.006	82	0.236	0.35	1
RTCB1516HL	120 A	31.57 kcmil	900	0.006	328	0.236	0.35	1
RTCB1525	150 A	49.34 kcmil	1,416	0.006	82	0.315	0.55	1
RTCB1525HL	150 A	49.34 kcmil	1,416	0.006	328	0.295	0.55	1
RTCB1530	180 A	59.20 kcmil	1,680	0.006	82	0.354	0.66	1
RTCB1530HL	180 A	59.20 kcmil	1,680	0.006	246	0.31	0.66	1
RTCB1550	250 A	98.68 kcmil	2,820	0.006	82	0.433	1.1	1
RTCB1575	300 A	148.01 kcmil	4,236	0.006	82	0.531	1.65	1
RTCB15100	360 A	197.35 kcmil	5,652	0.006	82	0.669	2.2	1

Unit weight is per meter (3.28 ft.).

RRCB ROUND BRAID IN COIL, PLAIN COPPER



FEATURES

- Braids in coil are mainly used for power distribution or earthing applications
- Non-magnetic material

SPECIFICATIONS

- Material: Copper

Catalog Number	Nominal Current	Cross Section	Number of Wires	Wire Diameter (in.)	Length (ft.)	Diameter (in.)	Unit Weight (lb.)	Qty.
RRCB156	45 A	11.84 kcmil	352	0.006	82	0.157	0.13	1
RRCB158	65 A	15.78 kcmil	464	0.006	82	0.177	0.18	1
RRCB1510	75 A	19.74 kcmil	560	0.006	82	0.197	0.22	1
RRCB1516	120 A	31.57 kcmil	900	0.006	82	0.236	0.35	1
RRCB1525	150 A	49.34 kcmil	1,416	0.006	82	0.315	0.55	1
RRCB1530	180 A	59.20 kcmil	1,680	0.006	82	0.354	0.66	1
RRCB1550	250 A	98.68 kcmil	2,820	0.006	82	0.433	1.1	1
RRCB1575	300 A	148.01 kcmil	4,236	0.006	82	0.551	1.65	1
RRCB15100	360 A	197.35 kcmil	5,652	0.006	82	0.709	2.2	1

Unit weight is per meter (3.28 ft.).

RRCBI INSULATED ROUND BRAID IN COIL, PLAIN COPPER



SPECIFICATIONS

- Material: Copper, Polyvinylchloride

Catalog Number	Nominal Current	Cross Section	Number of Wires	Wire Diameter (in.)	Length (ft.)	Diameter (in.)	Unit Weight (lb.)	Qty.
RRCBI1510	75 A	19.74 kcmil	560	0.006	82	0.276	0.22	1
RRCBI1516	120 A	31.57 kcmil	900	0.006	82	0.315	0.35	1
Insulation Thickness (in.)		Insulation Voltage		Temperature		Flammability Rating		
0.04		450 V		158 °F Max		UL 94V0		

Unit weight is per meter (3.28 ft.).

RTCBI INSULATED ROUND BRAID IN COIL, TINNED COPPER



SPECIFICATIONS

- Material: Copper, Polyvinylchloride

FINISH

- Finish: Tinned

Catalog Number	Nominal Current	Cross Section	Number of Wires	Wire Diameter (in.)	Length (ft.)	Diameter (in.)	Unit Weight (lb.)	Qty.
RTCBI1510	75 A	19.74 kcmil	560	0.006	82	0.276	0.27	1
RTCBI1510HL	75 A	19.74 kcmil	560	0.006	328	0.276	0.27	1
RTCBI1516	120 A	31.57 kcmil	900	0.006	82	0.315	0.4	1
RTCBI1516HL	120 A	31.57 kcmil	900	0.006	328	0.315	0.4	1
RTCBI1525	150 A	49.34 kcmil	1,416	0.006	82	0.374	0.55	1
RTCBI1525HL	150 A	49.34 kcmil	1,416	0.006	328	0.374	0.62	1
RTCBI1530	180 A	59.20 kcmil	1,680	0.006	82	0.394	0.77	1
RTCBI1530HL	180 A	59.20 kcmil	1,680	0.006	246	0.394	0.77	1
RTCBI1550	250 A	98.68 kcmil	2,820	0.006	82	0.492	1.28	1
Insulation Thickness (in.)		Insulation Voltage		Temperature		Flammability Rating		
0.04		450 V		158 °F Max		UL 94V0		

Unit weight is per meter (3.28 ft.).

TTCE TUBULAR BRAID IN COIL, TINNED COPPER

APPLICATION

The primary use of tubular braid is to provide sensitive cables with an EMC/EMI screen to shield them against electromagnetic, electrostatic and radio frequency interference. Optimum screening performance is obtained using copper wire braid that can also be used for earth continuity purposes.

FEATURES

- For screening connecting cables between equipment used in an electromagnetically disturbed environment
- Supplied with draw wire

SPECIFICATIONS

- Material: Copper

FINISH

- Finish: Tinned

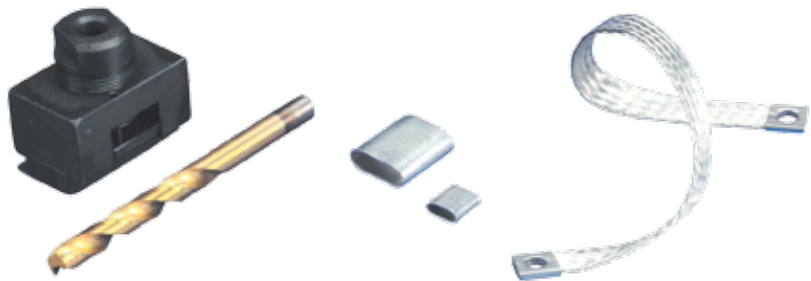
Catalog Number	Article Number	Nominal Current	Cross Section	Number of Wires	Wire Diameter (in.)	Length (ft.)	Unit Weight (lb.)	Qty.
TTCE3	510100	13 A	3.35 kcmil	96	0.006	164	0.04	1
TTCE5	510110	19 A	4.93 kcmil	144	0.006	164	0.06	1
TTCE8	510120	37 A	8.88 kcmil	252	0.006	164	0.11	1
TTCE8HL	504690	37 A	13.41 kcmil	216	0.008	656	0.11	1
TTCE10	510130	43 A	11.25 kcmil	320	0.006	164	0.12	1
TTCE15	510140	90 A	23.68 kcmil	334	0.008	164	0.27	1
TTCE20	510150	122 A	40.26 kcmil	288	0.012	164	0.42	1
TTCE25	510160	163 A	53.48 kcmil	384	0.012	82	0.6	1
TTCE30	510170	185 A	66.90 kcmil	480	0.012	82	0.7	1
TTCE35	510180	244 A	80.32 kcmil	576	0.012	82	0.83	1

Coverage Efficiency

Catalog Number	Nominal (in.)	Coverage	Diameter	
			Maximum (in.)	Coverage
TTCE3	0.12	100%	0.24	90%
TTCE5	0.2	99%	0.39	92%
TTCE8	0.31	99%	0.63	95%
TTCE8HL	0.31	99%	0.63	95%
TTCE10	0.39	100%	0.79	92%
TTCE15	0.59	100%	1.18	94%
TTCE20	0.79	99%	1.57	87%
TTCE25	0.98	99%	1.97	92%
TTCE30	1.18	100%	2.36	90%
TTCE35	1.38	100%	2.76	94%

Unit weight is per meter (3.28 ft.).

CREATING BRAIDED CONNECTIONS



BD CRIMP AND DRILL TOOL



- For crimping and drilling of braid terminals
- Use with FRCB Flat Braid in Coil, Plain Copper and FTCB Flat Braid in Coil, Tinned Copper
- Includes guide and drill bit

Catalog Number	Cross Section	Drill Bit Diameter (mm)	Screw Diameter	Unit Weight (lb.)	Qty.
BD16	31.57 kcmil	6.5	M6	1.44	1
BD168	31.57 kcmil	8.5	M8	1.44	1
BD25	49.30 kcmil	11.0	M10	1.49	1
BD50	98.68 kcmil	12.5	M12	1.57	1

BRAID CRIMPING TOOL KIT



FEATURES

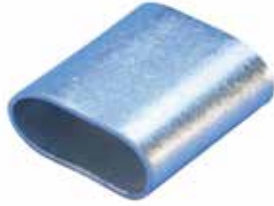
- Crimps PB lugs on braids using the Hydraulic ERIFLEX FLEXIBAR and Busbar Puncher
- Crimps braids and lugs flat and to a consistent thickness
- Kit includes one punch and two dies to accomodate all PB lug sizes
- Quick and easy setup without tools
- RoHS compliant

SPECIFICATIONS

- Material: Steel

Catalog Number	Unit Weight (lb.)	Qty.
HTC34	4.09	2

PB LUG FOR FLAT BRAIDS

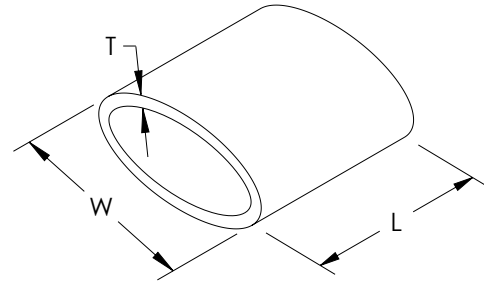


SPECIFICATIONS

- Material: Copper

FINISH

- Finish: Tinned



FEATURES

- Crimp to FTGB or FRCB braids to create custom flexible connections
- Crimped and drilled using BD Crimp and Drill Tool or Crimping Tool for Hydraulic Work Center
- RoHS compliant

Catalog Number	Cross Section	Width W (in.)	Length L (in.)	Thickness T (in.)	Unit Weight (lb.)	Qty.
PALM16	31.57 kcmil	0.63	0.59	0.04	0.008	100
PALM25	49.34 kcmil	0.87	0.98	0.04	0.022	100
PALM50	98.68 kcmil	1.18	1.18	0.04	0.034	100

Notes