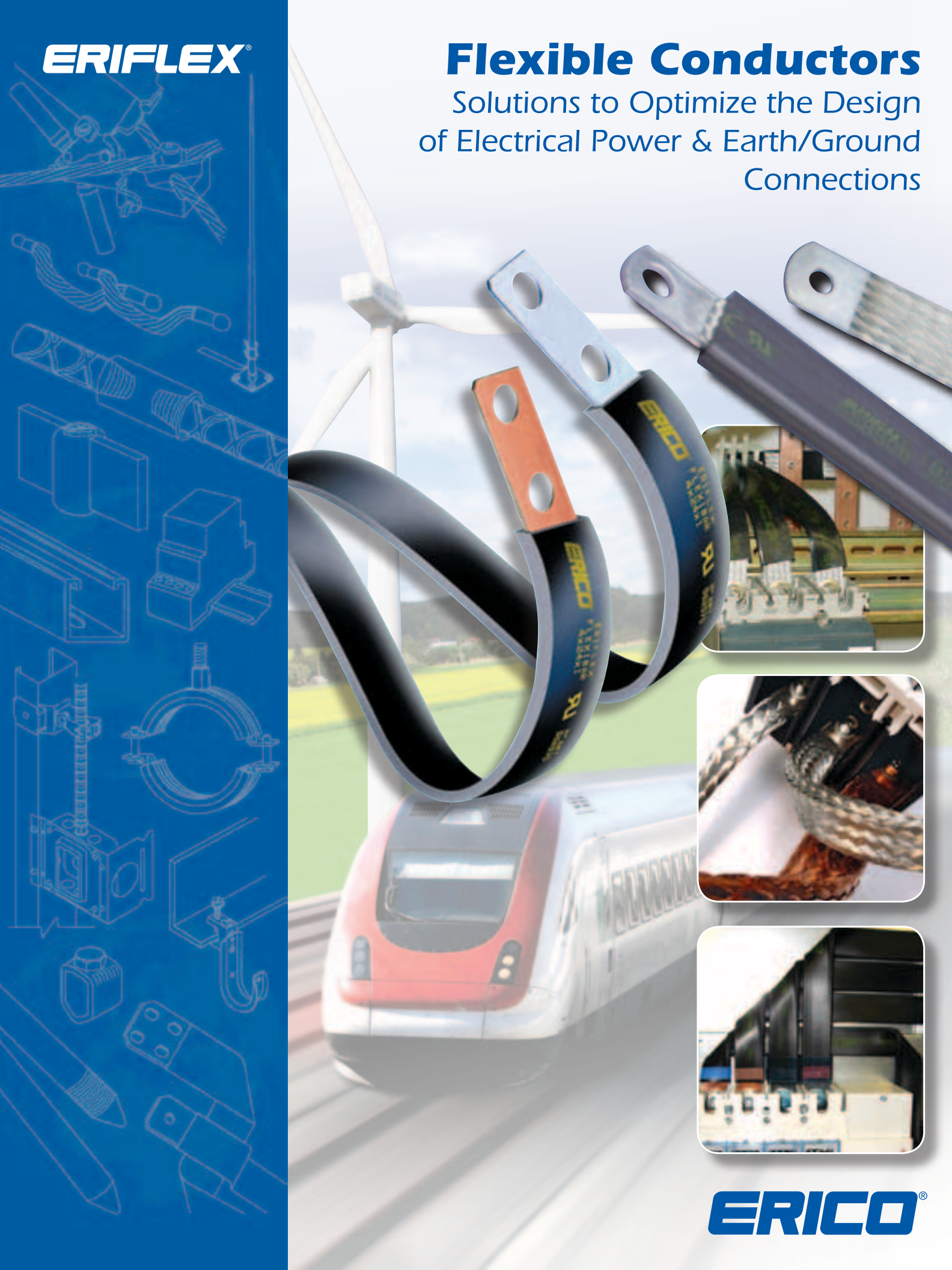


**ERIFLEX<sup>®</sup>**

# Flexible Conductors

Solutions to Optimize the Design  
of Electrical Power & Earth/Ground  
Connections



**ERICO<sup>®</sup>**

#### WARNING

ERICO products shall be installed and used only as indicated in ERICO's product instruction sheets and training materials. Instruction sheets are available at [www.erico.com](http://www.erico.com) and from your ERICO customer service representative. Improper installation, misuse, misapplication or other failure to completely follow ERICO's instructions and warnings may cause product malfunction, property damage, serious bodily injury and death.

#### WARRANTY

ERICO products are warranted to be free from defects in material and workmanship at the time of shipment. NO OTHER WARRANTY, WHETHER EXPRESS OR IMPLIED (INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE), SHALL EXIST IN CONNECTION WITH THE SALE OR USE OF ANY ERICO PRODUCTS. Claims for errors, shortages, defects or nonconformities ascertainable upon inspection must be made in writing within 5 days after Buyer's receipt of products. All other claims must be made in writing to ERICO within 6 months from the date of shipment or transport. Products claimed to be nonconforming or defective must, upon ERICO's prior written approval in accordance with its standard terms and procedures governing returns, promptly be returned to ERICO for inspection. Claims not made as provided above and within the applicable time period will be barred. ERICO shall in no event be responsible if the products have not been stored or used in accordance with its specifications and recommended procedures. ERICO will, at its option, either repair or replace nonconforming or defective products for which it is responsible or return the purchase price to the Buyer. THE FOREGOING STATES BUYER'S EXCLUSIVE REMEDY FOR ANY BREACH OF ERICO WARRANTY AND FOR ANY CLAIM, WHETHER SOUNDING IN CONTRACT, TORT OR NEGLIGENCE, FOR LOSS OR INJURY CAUSED BY THE SALE OR USE OF ANY PRODUCT.

#### LIMITATION OF LIABILITY

ERICO excludes all liability except such liability that is directly attributable to the willful or gross negligence of ERICO's employees. Should ERICO be held liable its liability shall in no event exceed the total purchase price under the contract. ERICO SHALL IN NO EVENT BE RESPONSIBLE FOR ANY LOSS OF BUSINESS OR PROFITS, DOWNTIME OR DELAY, LABOR, REPAIR OR MATERIAL COSTS OR ANY SIMILAR OR DISSIMILAR CONSEQUENTIAL LOSS OR DAMAGE INCURRED BY BUYER.

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## Flexible Conductors for Low-Voltage Industrial Applications

### The ERICO Advantages

- A solution provider with strong expertise in a variety of markets worldwide
- A worldwide team of experts in electrical power connections
- Experienced manufacturer and global provider
- Full range of high-quality, reliable, certified products
- Innovative and compatible product designs
- Easy to use – saves time and space
- Maximize power density



### Energy

- Electrical Power Generators and Distribution
  - Transformers
  - Generators
- Renewable Energies
  - Windmills
  - Solar
  - Hydropower
- Oil, Gas and Petrochemical
- Telecom
- Power Stations



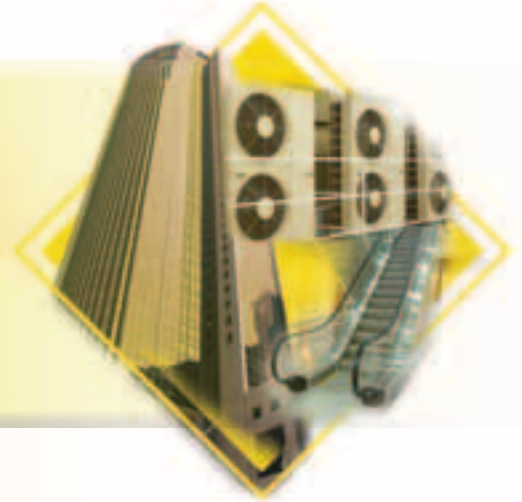
### Transportation

- Marine
- Aircraft
- Ground Transportation
- Automotive



## Industry & Buildings

- Buildings & Shopping Centers
- Air Conditioning
- Elevators, Escalators & Automatic Doors



## Panelboard

- Power
- Control & Command Applications:
  - Power Switchboards
  - Distribution Panel
  - UPS
  - Power Factory Correction



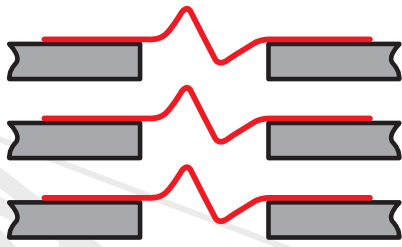
## Machinery

- Tunneling
- Crunchers
- Printing
- Welding
- Packaging
- Wood Working

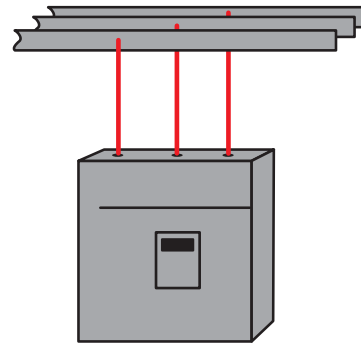


# Flexible Conductors for Multiple Applications

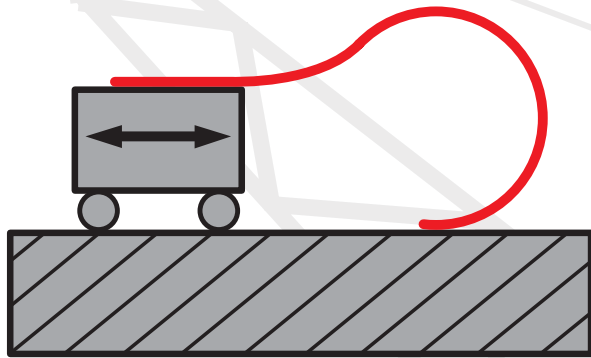
ERICO is trusted for producing high quality flexible conductors for low voltage power connections. Flexible conductors made out of braids or laminates are used in a variety of applications for current transfer or grounding/earthing connections.



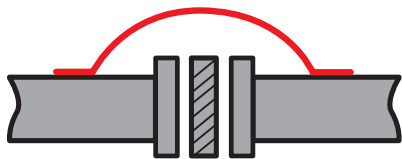
Expansion connections for busbar system



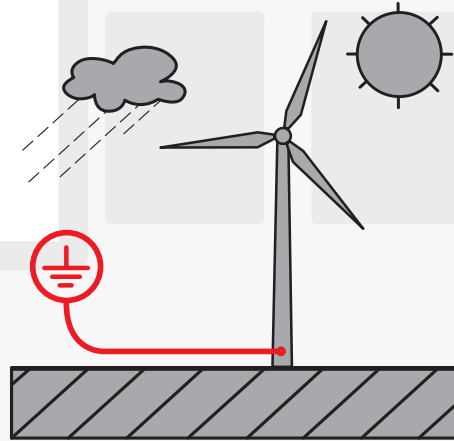
Busbar and active electrical component connection (Example: circuit breaker, contactor) including most compact components on the market



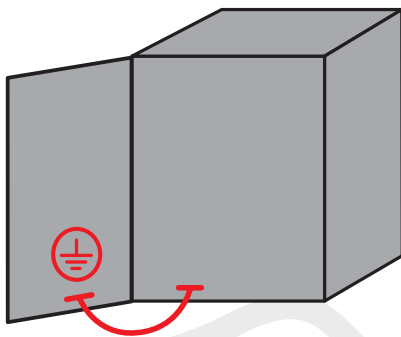
Flexible connection between fixed and moving parts



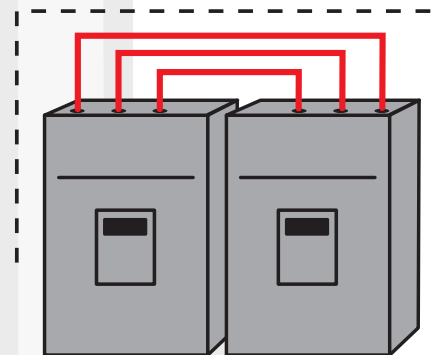
Earthing/grounding interconnection (Example: pipeline)



Outdoor/offshore application or difficult environment (Example: abrasion, corrosion, UV...)



Earthing/grounding connection with excellent electro-magnetic compatibility

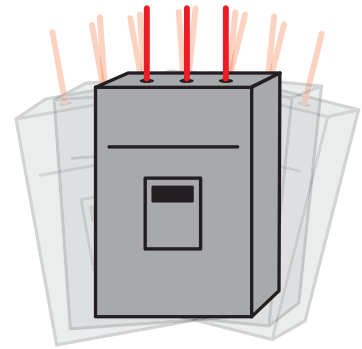


Short and compact connection between electrical components for volume reduction

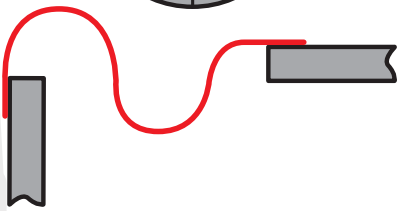
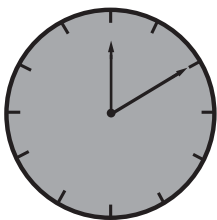
# Flexible Conductors for Multiple Applications



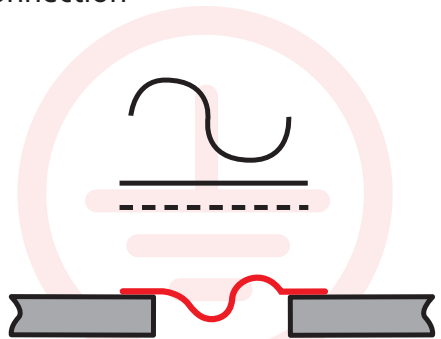
Worldwide certifications, applications and product availability



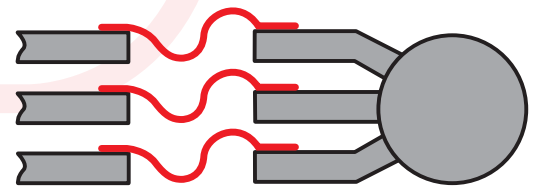
Vibration and reliability solution for connection



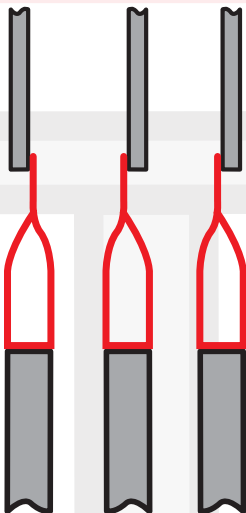
Reduce time assembly or maintenance connection



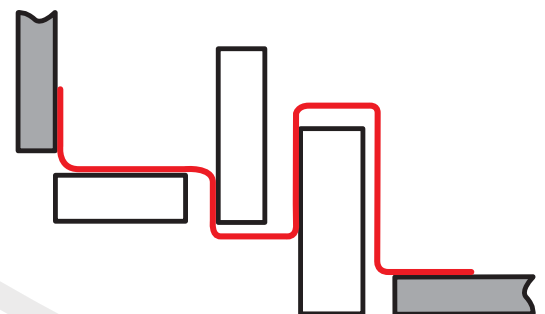
Connection for alternating current or direct current application



Motor, generator or transformer connection with busbar system



Power connection between horizontal and vertical system



Complicated and difficult connection for specific application

# Certificates & ERIFLEX® Software

## Tests & Certificates

ERIFLEX components have received conformity certificates from several agencies/standards.

### Worldwide Certification

UL® CSA® IEC GOST



ABS® VERITAS CE

## Interactive ERIFLEX Software Available Online from ERICO

With the click of a mouse, ERICO makes it easy to create a technical panel layout with all of the necessary components. Available at [www.erico.com/eriflex](http://www.erico.com/eriflex), this interactive software walks the user through the creation of a project with easy to follow instructions. The software features updated pricelists, informative product datasheets and a project installation calculator.

Whether you're interested in making a complete low-voltage busbar system or a distribution kit, or if you need to determine a flexible connection with ERIFLEX® FLEXIBAR, you can trust ERIFLEX software to help simplify the process.

In fact, the software will provide you with technical and commercial datasheets dedicated to your project.

For more information or to request your personal login information, contact your local ERICO representative or visit [www.erico.com/eriflex](http://www.erico.com/eriflex).

### Early involvement of ERICO experts results in optimal solutions:

- Compact Solution
- Quality Environment
- Compliance
- Cost Effective

### Agency/Standard Approval



IEC 60439.1 Standard  
IEC 61439.1 Standard



Underwriters Laboratories  
UL Recognized, File No. E125470  
UL Recognized, File No. E220029  
UL Recognized, File No. E316390



UL Listed, File No. E220029



Canadian Standards Association  
CSA Certified, File No. LL 90005



ABS American Bureau of Shipping  
Certificate No. 08-HS365878-DUP  
Marine & Offshore Applications



International Electrotechnical Association



Bureau VERITAS  
Certificate No. 02859 / DO BV for  
shipboard use



GOST  
Certificate compliance for Russian  
territory



RoHS Compliant



[www.erico.com/eriflex](http://www.erico.com/eriflex)



Product Range	Typical Uses	Typical Market
<b>Insulated flexible busbar (ERIFLEX® FLEXIBAR)</b> 	<ul style="list-style-type: none"> <li>• Heavy-duty power interconnection</li> <li>• Overcome vibration/alignment problems</li> <li>• Circuit breaker, generator &amp; prefabricated power network conductor</li> <li>• Expansion joints</li> <li>• Variable terminating positions</li> <li>• Machine connections</li> <li>• Movable connection from massive busbar system</li> <li>• Alternative to large &amp; multiple cables</li> <li>• Alternative to rigid busbar</li> </ul>	<ul style="list-style-type: none"> <li>• Switchgear &amp; control equipment</li> <li>• Transport</li> <li>• Electrical equipment manufacturers</li> <li>• Power generation</li> <li>• Machinery manufacturer</li> </ul>
<b>Insulated braided conductor (IBS, IBSB &amp; IBSBR)</b> 	<ul style="list-style-type: none"> <li>• Interconnects for low voltage power distribution units</li> <li>• IBSB specially designed for industrial circuit breaker connection</li> <li>• Overcome vibration/alignment problems</li> <li>• Battery connections</li> <li>• Earth/ground connections</li> </ul>	<ul style="list-style-type: none"> <li>• Switchgear &amp; control equipment</li> <li>• Transport</li> <li>• Electrical equipment manufacturers</li> <li>• Power generation</li> </ul>
<b>Power shunt (PBC, PBCR &amp; PPS)</b> 	<ul style="list-style-type: none"> <li>• Transformer or generator to busbar connection</li> <li>• Overcome vibration/alignment problems</li> <li>• Power interconnection</li> </ul>	<ul style="list-style-type: none"> <li>• Switchgear &amp; control equipment</li> <li>• Power distribution</li> <li>• Transportation</li> </ul>
<b>Earth/ground copper braids (MBJ &amp; BJ)</b> 	<ul style="list-style-type: none"> <li>• Power, earthing/grounding and equipotential connections</li> <li>• Electrical bonding enclosure door</li> <li>• EMI effect reduction application</li> </ul>	<ul style="list-style-type: none"> <li>• Switchgear &amp; control equipment</li> <li>• Rail transportation</li> <li>• Electrical equipment manufacturers</li> <li>• Power generation (wind, solar)</li> <li>• Data center</li> </ul>
<b>Earth/ground stainless steel braids (CPI)</b> 	<ul style="list-style-type: none"> <li>• Earthing/grounding and equipotential connections</li> <li>• Superior abrasion, corrosion, chemical, and UV resistance for outdoor applications</li> <li>• Expansion joints</li> <li>• Connections for lightning protection systems</li> </ul>	<ul style="list-style-type: none"> <li>• Transportation</li> <li>• Food and beverage industry</li> <li>• Power generation (wind, solar)</li> <li>• Chemical and oil industry</li> <li>• Automotive</li> <li>• Defense &amp; aerospace</li> <li>• Civil construction</li> <li>• Urban projects</li> </ul>
<b>Flat and round copper braids in coils</b> 	<ul style="list-style-type: none"> <li>• Earth/ground connections</li> <li>• Power interconnection</li> <li>• Lightning protection</li> <li>• Flexible links</li> <li>• Overcome vibration/alignment problems</li> </ul>	<ul style="list-style-type: none"> <li>• Defense &amp; aerospace</li> <li>• Rail transportation</li> <li>• Automotive</li> <li>• Electronics</li> <li>• General electrical sector</li> <li>• Civil construction</li> </ul>
<b>Tubular copper braids in coils</b> 	<ul style="list-style-type: none"> <li>• Screening of cables from electromagnetic, electrostatic and RF interference</li> <li>• Mechanical support</li> <li>• Protection against abrasion and corrosion</li> <li>• EMC &amp; EMH applications</li> </ul>	<ul style="list-style-type: none"> <li>• Defense &amp; aerospace</li> <li>• Transportation</li> <li>• Electronics &amp; communication</li> <li>• Cable harness &amp; assembly makers</li> <li>• Component distributors</li> </ul>

# ERIFLEX® FLEXIBAR - Insulated Flexible Busbar

## NEW Generation Flexible Busbar

Patent pending insulation on ERIFLEX FLEXIBAR



### ERIFLEX FLEXIBAR Flexible Busbar - a preferred conductor

- 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 Part Number on product
- Easily formed, ERIFLEX FLEXIBAR improves assembly flexibility and aesthetics of panels
- Ideal alternative to large cable & rigid busbar
- Quality: 100% production dielectric tested
- Full range from 24 mm<sup>2</sup> up to 1200 mm<sup>2</sup>

### Superior Flexibility

ERICO's exclusive manufacturing process offers superior flexibility:

- Copper laminates are free to slide within the insulation
- High insulation quality
- Wide variety of bending, twisting & folding possibilities

**NEW**

### Innovative patent pending insulation\*

ERIFLEX FLEXIBAR has added grooves on the inner surface of the insulation sleeve to improve sliding between the central conductor and the insulation material. The grooves help reduce the contact surface between the central conductor and the insulation material. This results in improved flexibility of the flexible busbar. Result: <20% of the inner surface is in contact with the central conductor. This ERICO patent-pending idea makes ERIFLEX FLEXIBAR more flexible than ever, and allows users to optimize the design of their electrical power connection.

\* This patent is applicable for the cross section indication by "\*" on the part number. Refer to table on page 13



### Diverse Applications

- Usage -25°C up to 105°C (-13°F up to 221°F) ERIFLEX FLEXIBAR
- Nominal voltage = 1000 V AC/1500 V DC (IEC & UL®)
- Self-extinguishable
- High mechanical resistance
- High elongation value
- High current withstanding
- High copper quality (99.9% purity)
- High conductivity



## Connection Types

- Between main power and distribution equipment (contactors, circuit-breakers...)
- Between transformer and busduct
- Between busduct and electrical cabinet

## Space/Weight Savings

- Requires less installation space when compared to cable
- Reduces the length and number of conductors, reducing weight
- Insulation allows for closer spacing than traditional busbar designs.

## Cost Savings

- Eliminates cost and installation of lugs
- Reduces inventory costs

## Improves Reliability

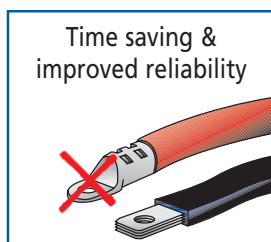
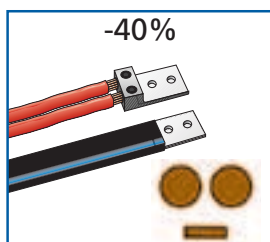
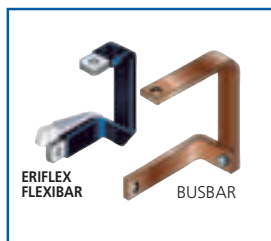
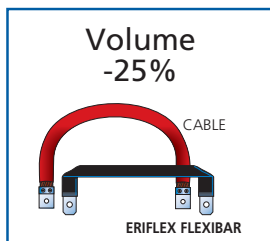
- Connection is made directly to ERIFLEX FLEXIBAR thus eliminating the cable lug connection
- Excellent resistance to vibration
- No crimping

## Aesthetics

- Improves design flexibility and panel access

## Ease of Installation

- Installation is facilitated through the ease of bending and shaping even large sizes



## Skin Effect on A.C. Application

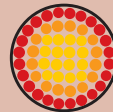
### Comparison of the penetration depth between:

1 x 95 mm<sup>2</sup> Copper Cable — OR → 1 x ERIFLEX® FLEXIBAR  
2 x 20 x 1

95 mm<sup>2</sup>

250 A

40 mm<sup>2</sup>

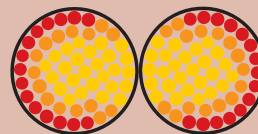


2 x 150 mm<sup>2</sup> Copper Cables — OR → 1 x ERIFLEX® FLEXIBAR  
5 x 32 x 1

300 mm<sup>2</sup>

630 A

160 mm<sup>2</sup>

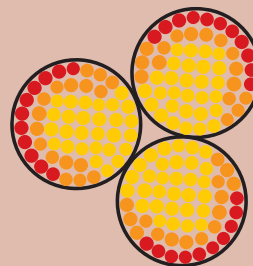


3 x 185 mm<sup>2</sup> Copper Cables — OR → 1 x ERIFLEX® FLEXIBAR  
6 x 50 x 1

555 mm<sup>2</sup>

1000 A

300 mm<sup>2</sup>

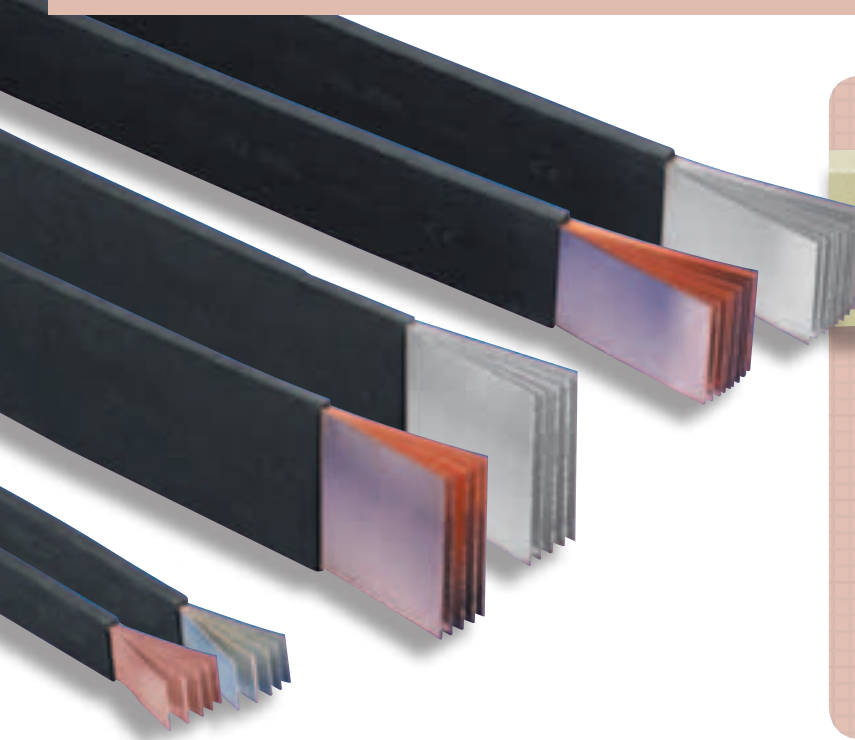


■ = Conductor  
■ = Reduced Conductivity  
■ = Insulation

Representative to scale.

ERIFLEX FLEXIBAR intensity and cable intensity are based on conductor temperature rise of 50°C.

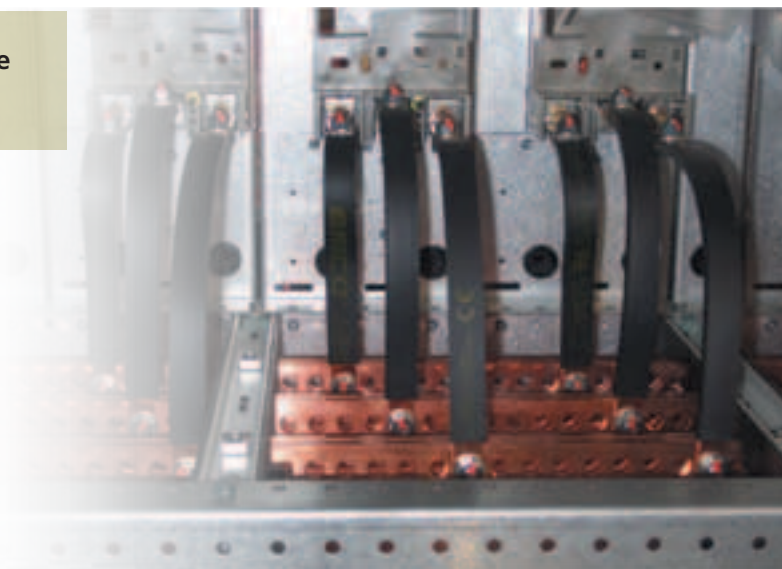
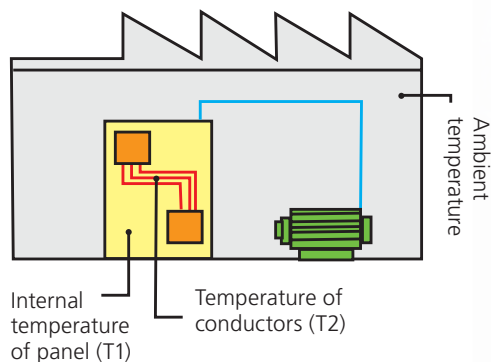
# ERIFLEX® FLEXIBAR Technical Characteristics



## ERIFLEX FLEXIBAR Insulated Flexible Busbar Technical Characteristics

- Conductor is electrolytic copper (Cu-ETP)
- Insulation is high-resistance vinyl compound:
  - Elongation: 370%
  - Maximum working temperature: 105°C
  - Minimum working temperature: -25°C
  - Thickness: 2 mm ± 0,2
  - Self-extinguishing: UL® 94 VO
  - Dielectric strength: 20kV/mm

### Selection of ERIFLEX® FLEXIBAR according to the internal temperature of the panel



### 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 mm<sup>2</sup> - 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:

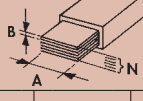


Ex: 5 x 32 x 1 -  $\Delta T^{\circ} = 50\text{K}$ : 640 A

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

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



# ERIFLEX® FLEXIBAR Technical Characteristics

A	Part Number				Section mm <sup>2</sup>	ΔT (K)						Current Coefficient	
		N	A	B		70	60	50	40	30	20		
125 A	552400	8	x 6	x 0,5	24	196	182	<b>166</b>	143	128	105	1,72	2,25
	552410	3	x 9	x 0,8	21,6	158	147	<b>134</b>	120	104	85	1,72	2,25
	552420	6	x 9	x 0,8	43,2	290	269	<b>245</b>	220	190	155	1,72	2,25
	552440	3	x 13	x 0,5	19,5	198	184	<b>167</b>	150	130	106	1,72	2,25
	552390	2	x 15,5	x 0,8	24,8	252	234	<b>212</b>	191	165	134	1,72	2,25
250 A	552430	9	x 9	x 0,8	64,8	314	291	<b>265</b>	237	206	168	1,72	2,25
	552450	6	x 13	x 0,5	39	300	277	<b>253</b>	226	196	160	1,72	2,25
	552460	4	x 15,5	x 0,8	49,6	380	350	<b>320</b>	286	248	202	1,72	2,25
	552490	2	x 20	x 1	40	326	300	<b>275</b>	246	214	174	1,72	2,25
	552500	3	x 20	x 1	60	428	395	<b>360</b>	323	280	228	1,72	2,25
	552550	2	x 24	x 1	48	450	416	<b>380</b>	340	295	240	1,72	2,25
400 A	552470	6	x 15,5	x 0,8	74,4	476	440	<b>402</b>	360	318	254	1,72	2,25
	552480	10	x 15,5	x 0,8	124	538	498	<b>455</b>	407	352	288	1,72	2,25
	552510	4	x 20	x 1	80	476	440	<b>402</b>	360	312	254	1,72	2,25
	552520	5	x 20	x 1	100	498	460	<b>420</b>	376	326	266	1,72	2,25
	552530	6	x 20	x 1	120	546	506	<b>462</b>	413	358	292	1,72	2,25
	552560	3	x 24	x 1	72	490	453	<b>413</b>	370	320	261	1,72	2,25
	552570	4	x 24	x 1	96	550	510	<b>465</b>	416	360	294	1,72	2,25
	552620	2	x 32	x 1	64	480	445	<b>406</b>	363	315	257	1,72	2,25
	552630	3	x 32	x 1	96	570	525	<b>480</b>	430	372	304	1,72	2,25
552690	2	x 40	x 1	80	538	500	<b>455</b>	406	352	288	1,72	2,25	
500 A	552580	5	x 24	x 1	120	608	563	<b>514</b>	460	398	325	1,72	2,25
	552590	6	x 24	x 1	144	670	620	<b>566</b>	506	438	358	1,72	2,25
	552640	4	x 32	x 1	128	648	600	<b>548</b>	490	425	347	1,72	2,25
	552700	3	x 40	x 1	120	617	570	<b>522</b>	466	405	330	1,72	2,25
	552710	4	x 40	x 1	160	727	673	<b>615</b>	550	476	389	1,72	2,25
	552760	3	x 50	x 1	150	700	650	<b>592</b>	530	460	374	1,72	2,25
630 A	552540	10	x 20	x 1	200	762	706	<b>645</b>	576	500	408	1,72	2,25
	552600	8	x 24	x 1	192	802	743	<b>678</b>	606	525	429	1,72	2,25
	552650	5	x 32	x 1	160	758	702	<b>640</b>	573	496	405	1,72	2,25
	552660	6	x 32	x 1	192	846	783	<b>715</b>	640	555	452	1,72	2,25
	552720	5	x 40	x 1	200	900	832	<b>760</b>	680	590	481	1,72	2,25
	552770	4	x 50	x 1	200	860	795	<b>727</b>	650	563	460	1,72	2,25
800 A	552610	10	x 24	x 1	240	948	877	<b>800</b>	716	592	506	1,72	2,25
	552670	8	x 32	x 1	256	1018	943	<b>860</b>	770	667	544	1,72	2,25
	552730	6	x 40	x 1	240	1018	943	<b>860</b>	770	667	544	1,72	2,25
	552780	5	x 50	x 1	250	1100	1016	<b>930</b>	830	718	588	1,72	2,25
	552830	4	x 63	x 1	252	1010	935	<b>855</b>	763	661	541	1,65	2,12
	552880	3	x 80	x 1	240	980	906	<b>827</b>	740	640	523	1,65	2,12
1000 A	552680	10	x 32	x 1	320	1230	1140	<b>1040</b>	930	805	658	1,72	2,25
	552740	8	x 40	x 1	320	1230	1140	<b>1040</b>	930	805	658	1,72	2,25
	552750	10	x 40	x 1	400	1400	1295	<b>1181</b>	1055	915	747	1,72	2,25
	552790	6	x 50	x 1	300	1225	1135	<b>1035</b>	925	802	655	1,72	2,25
	552800	8	x 50	x 1	400	1393	1290	<b>1175</b>	1050	912	743	1,72	2,25
	552840	5	x 63	x 1	315	1220	1125	<b>1030</b>	920	797	651	1,65	2,12
	552850	6	x 63	x 1	378	1437	1330	<b>1215</b>	1085	941	768	1,65	2,12
	552890	4	x 80	x 1	320	1200	1110	<b>1015</b>	906	785	642	1,65	2,12
	552900	5	x 80	x 1	400	1390	1285	<b>1175</b>	1050	910	743	1,65	2,12
1250 A	552810	10	x 50	x 1	500	1650	1525	<b>1395</b>	1245	1080	882	1,72	2,25
	552860	8	x 53	x 1	504	1650	1525	<b>1395</b>	1245	1080	882	1,65	2,12
	552910	6	x 80	x 1	480	1627	1505	<b>1375</b>	1230	1065	870	1,65	2,12
	552950	5	x 100	x 1	500	1635	1515	<b>1385</b>	1235	1070	876	1,6	2,02
	552960	6	x 100	x 1	600	1843	1705	<b>1550</b>	1393	1205	980	1,6	2,02
1600 A	552870	10	x 63	x 1	630	1895	1755	<b>1600</b>	1435	1240	1012	1,65	2,12
	552920	8	x 80	x 1	640	1895	1755	<b>1600</b>	1430	1240	1012	1,65	2,12
	552930	10	x 80	x 1	800	2100	1945	<b>1775</b>	1585	1375	1123	1,65	2,12
	552970	8	x 100	x 1	800	2147	1990	<b>1815</b>	1625	1405	1148	1,6	2,02
	552980	10	x 100	x 1	1000	2350	2170	<b>1985</b>	1775	1535	1255	1,6	2,02
	552990	12	x 100	x 1	1200	2500	2315	<b>2115</b>	1890	1636	1338	1,6	2,02
	538650	10	x 120	x 1	1200	2755	2550	<b>2330</b>	2070	1792	1474	1,49	1,95

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.

# ERIFLEX® FLEXIBAR Certifications & Approvals





## ERIFLEX FLEXIBAR Voltage Rating

- Maximum continuous voltage: 1000 VAC and 1500 VDC, UL® & IEC

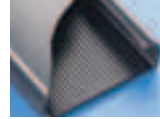
## ERIFLEX FLEXIBAR Insulated Flexible Busbar Certification & Approvals

- International Commission Electrotechnique (IEC) - Meets all requirements of IEC 60439.1 & IEC 61439.1
- UL 67 Recognized component in the "Panelboard and Switchboard accessories - component" category (UL file E125470) for US and Canadian territory
- UL 758 Recognized component in the "Appliance wiring material - component" category style 10531 (UL file E316390) and category style 11343 (UL file E316390)
- Veritas Certified - No. 02859/DOBV. Ship application
- Canadian Standards Association - CSA® certified as appliance wiring material for a maximum of 1000 volts. File N° 090005 (CAN/CSA - C22.2)
- American Bureau of Shipping (ABS®) - Certificate No. 08-HS365878-DUP - Marine & Offshore Applications
- CE Conformity
- GOST Certificate Compliance - for Russian territory
- RoHS Compliance

## 2 Meters Red Copper



Part Number	ERIFLEX FLEXIBAR Description		 Kg
552400	2M 8 x 6 x 0,5	10	0,35
552410	2M 3 x 9 x 0,8	10	0,43
552420	2M 6 x 9 x 0,8	10	0,81
552430	2M 9 x 9 x 0,8	10	1,19
552440	2M 3 x 13 x 0,5	10	0,45
552450	2M 6 x 13 x 0,5	10	0,79
552390	2M 2 x 15,5 x 0,8	10	0,51
552460	2M 4 x 15,5 x 0,8	10	1,02
552470	2M 6 x 15,5 x 0,8	10	1,50
552480	2M 10 x 15,5 x 0,8	10	2,20
552490	2M 2 x 20 x 1	5	1,05
552500	2M 3 x 20 x 1	5	1,42
552510	2M 4 x 20 x 1	5	1,78
552520*	2M 5 x 20 x 1	5	2,15
552530*	2M 6 x 20 x 1	5	2,41
552540*	2M 10 x 20 x 1	5	3,99
552550	2M 2 x 24 x 1	5	1,24
552560	2M 3 x 24 x 1	5	1,68
552570	2M 4 x 24 x 1	5	2,12
552580*	2M 5 x 24 x 1	5	2,55
552590*	2M 6 x 24 x 1	5	2,99
552600*	2M 8 x 24 x 1	5	3,87
552610*	2M 10 x 24 x 1	5	4,75
552620	2M 2 x 32 x 1	5	1,62
552630	2M 3 x 32 x 1	5	2,20
552640	2M 4 x 32 x 1	5	2,78
552650*	2M 5 x 32 x 1	5	3,36
552660*	2M 6 x 32 x 1	5	3,94
552670*	2M 8 x 32 x 1	5	5,10
552680*	2M 10 x 32 x 1	5	6,27
552690	2M 2 x 40 x 1	5	1,99
552700	2M 3 x 40 x 1	5	2,72
552710	2M 4 x 40 x 1	5	3,44
552720*	2M 5 x 40 x 1	5	4,16
552730*	2M 6 x 40 x 1	5	4,89
552740*	2M 8 x 40 x 1	5	6,33
552750*	2M 10 x 40 x 1	5	7,78
552760	2M 3 x 50 x 1	5	3,37
552770*	2M 4 x 50 x 1	5	4,27
552780*	2M 5 x 50 x 1	5	5,17
552790*	2M 6 x 50 x 1	2	6,07
552800*	2M 8 x 50 x 1	2	7,87
552810*	2M 10 x 50 x 1	2	9,68
552830*	2M 4 x 63 x 1	2	5,34
552840*	2M 5 x 63 x 1	2	6,48
552850*	2M 6 x 63 x 1	2	7,61
552860*	2M 8 x 63 x 1	2	9,88
552870*	2M 10 x 63 x 1	2	12,14
552880	2M 3 x 80 x 1	2	5,32
552890*	2M 4 x 80 x 1	2	6,75
552900*	2M 5 x 80 x 1	2	8,19
552910*	2M 6 x 80 x 1	2	9,62
552920*	2M 8 x 80 x 1	2	12,49
552930*	2M 10 x 80 x 1	2	15,37
552950*	2M 5 x 100 x 1	2	10,20
552960*	2M 6 x 100 x 1	2	11,99
552970*	2M 8 x 100 x 1	2	15,57
552980*	2M 10 x 100 x 1	2	19,16
552990*	2M 12 x 100 x 1	2	22,74
538650*	2M 10 x 120 x 1	1	22,90

\* ERICO patent pending insulation





All ERIFLEX FLEXIBAR cross sections can be bent, folded or twisted with a very small bending radius for shorter and more compact power connections, from 125A up to 4500A applications.

## 3 Meters Red Copper

Part Number	ERIFLEX FLEXIBAR Description		 Kg
541020	3M 6 x 9 x 0,8	5	1,22
541060	3M 4 x 15,5 x 0,8	5	1,53
541070	3M 6 x 15,5 x 0,8	5	2,25
541090	3M 2 x 20 x 1	5	1,58
541100	3M 3 x 20 x 1	5	2,13
541110	3M 4 x 20 x 1	5	2,67
541150	3M 2 x 24 x 1	5	1,86
541160	3M 3 x 24 x 1	5	2,52
541170	3M 4 x 24 x 1	5	3,18
541180*	3M 5 x 24 x 1	5	3,83
541230	3M 3 x 32 x 1	2	3,30
541240	3M 4 x 32 x 1	2	4,17
541250*	3M 5 x 32 x 1	2	5,04
541260*	3M 6 x 32 x 1	2	5,91
541270*	3M 8 x 32 x 1	2	7,65
541320*	3M 5 x 40 x 1	2	6,24
541380*	3M 5 x 50 x 1	2	7,76

\* ERICO patent pending insulation

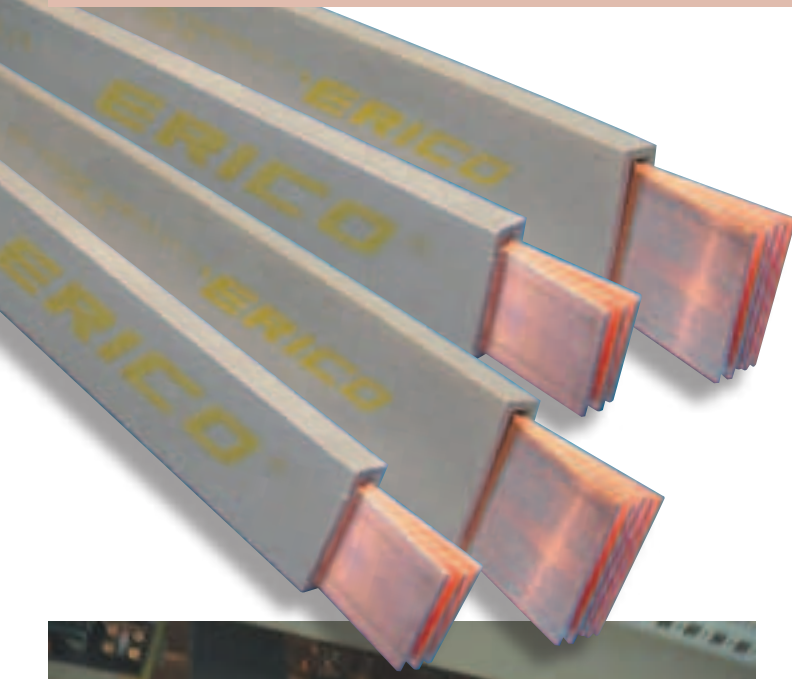
## 3 Meters Tinned Copper

Part Number	ERIFLEX FLEXIBAR Description		 Kg
505501	3MTC 2 x 20 x 1	5	1,58
505502	3MTC 3 x 20 x 1	5	2,13
505503	3MTC 4 x 20 x 1	5	2,67
505506	3MTC 2 x 24 x 1	5	1,86
505507	3MTC 3 x 24 x 1	5	2,52
505508	3MTC 4 x 24 x 1	5	3,18
505509*	3MTC 5 x 24 x 1	5	3,83
505510*	3MTC 6 x 24 x 1	5	4,48
505514	3MTC 3 x 32 x 1	2	3,30
505515	3MTC 4 x 32 x 1	2	4,17
505516*	3MTC 5 x 32 x 1	2	5,04
505517*	3MTC 6 x 32 x 1	2	5,91
505518*	3MTC 8 x 32 x 1	2	7,65
505519*	3MTC 10 x 32 x 1	2	9,40
505523*	3MTC 5 x 40 x 1	2	6,24
505526*	3MTC 10 x 40 x 1	2	11,67

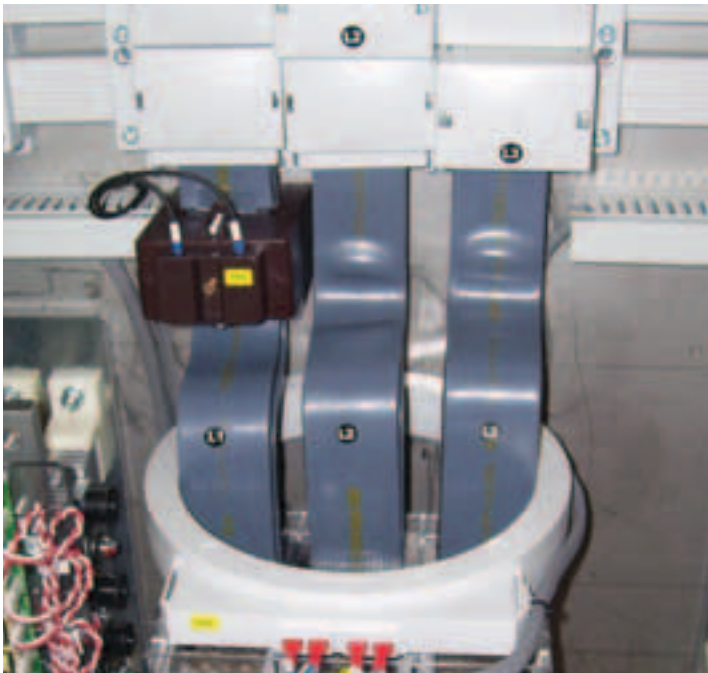
\* ERICO patent pending insulation



# ERIFLEX® FLEXIBAR SUMMUM - Halogen Free



On request: Silvered or Tinned  
ERIFLEX FLEXIBAR SUMMUM



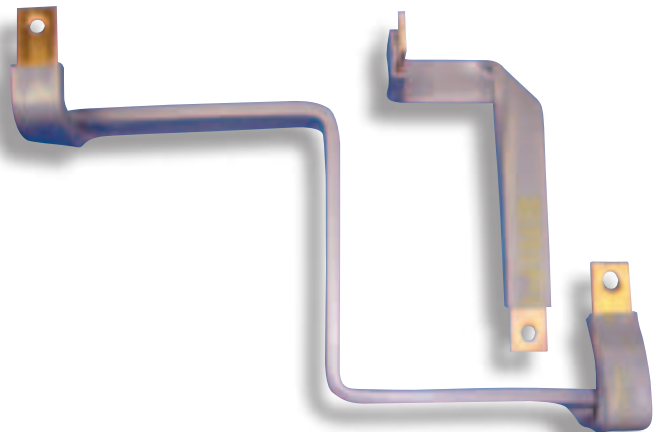
## ERIFLEX FLEXIBAR SUMMUM Characteristics

- Halogen free
- Environmental awareness
- High current density
- High ambient temperature
- High flexibility
- High insulation value

IEC 60439.1 &  
IEC 61439.1

## ERIFLEX FLEXIBAR SUMMUM

- Conductor in electrolytic copper
  - Laminates thickness 1 mm
- Insulation in silicone compound
  - Working temperature: -50°C up to 280°C (315°C short time)
  - Halogen free
  - Low smoke
  - Very high UV & ozone withstanding
  - Self-extinguishing: UL® 94 VO
  - Elongation: 400% minimum
  - Tear resistance: 20 KN/m minimum
  - Thickness: 2 mm ± 0.2 mm
  - Dielectric strength: 20 KV/mm
  - Maximum continuous voltage: 1000 V AC/ 1500 V DC -
  - American Bureau of Shipping (ABS®) - Certificate No. 08-HS365878-DUP - Marine & Offshore Applications









# ERIFLEX® FLEXIBAR SUMMUM - Halogen Free



Some photographs in the ERIFLEX FLEXIBAR SUMMUM section may actually be using ERIFLEX FLEXIBAR

## 2 Meter Red Copper

Part Number	ERIFLEX® FLEXIBAR Description		 Kg	Section mm <sup>2</sup>	IEC® Ampacity ΔT (°k)					Current Coefficient	
					70	60	50	40	30		
566490	ERIFLEX FLEXIBAR SUMMUM 2 M 2 x 20 x 1	5	1,05	40	326	300	<b>275</b>	246	214	1,72	2,25
566500	ERIFLEX FLEXIBAR SUMMUM 2 M 3 x 20 x 1	5	1,42	60	428	395	<b>360</b>	323	280	1,72	2,25
566510	ERIFLEX FLEXIBAR SUMMUM 2 M 4 x 20 x 1	5	1,78	80	476	440	<b>402</b>	360	312	1,72	2,25
566520	ERIFLEX FLEXIBAR SUMMUM 2 M 5 x 20 x 1	5	2,15	100	498	460	<b>420</b>	376	326	1,72	2,25
566550	ERIFLEX FLEXIBAR SUMMUM 2 M 2 x 24 x 1	5	1,24	48	450	416	<b>380</b>	340	295	1,72	2,25
566560	ERIFLEX FLEXIBAR SUMMUM 2 M 3 x 24 x 1	5	1,68	72	490	453	<b>413</b>	370	320	1,72	2,25
566570	ERIFLEX FLEXIBAR SUMMUM 2 M 4 x 24 x 1	5	2,12	96	550	540	<b>465</b>	416	360	1,72	2,25
566580	ERIFLEX FLEXIBAR SUMMUM 2 M 5 x 24 x 1	5	2,55	120	608	563	<b>514</b>	460	398	1,72	2,25
566590	ERIFLEX FLEXIBAR SUMMUM 2 M 6 x 24 x 1	5	2,99	144	670	620	<b>566</b>	506	438	1,72	2,25
566630	ERIFLEX FLEXIBAR SUMMUM 2 M 3 x 32 x 1	5	2,2	96	570	525	<b>480</b>	430	372	1,72	2,25
566640	ERIFLEX FLEXIBAR SUMMUM 2 M 4 x 32 x 1	5	2,78	128	648	600	<b>548</b>	490	425	1,72	2,25
566650	ERIFLEX FLEXIBAR SUMMUM 2 M 5 x 32 x 1	5	3,36	160	758	702	<b>640</b>	573	496	1,72	2,25
566660	ERIFLEX FLEXIBAR SUMMUM 2 M 6 x 32 x 1	5	3,94	192	846	783	<b>715</b>	640	555	1,72	2,25
566670	ERIFLEX FLEXIBAR SUMMUM 2 M 8 x 32 x 1	5	5,1	256	1018	943	<b>860</b>	770	667	1,72	2,25
566720	ERIFLEX FLEXIBAR SUMMUM 2 M 5 x 40 x 1	5	4,16	200	900	832	<b>760</b>	680	590	1,72	2,25
566730	ERIFLEX FLEXIBAR SUMMUM 2 M 6 x 40 x 1	5	4,89	240	1018	943	<b>860</b>	770	667	1,72	2,25
566750	ERIFLEX FLEXIBAR SUMMUM 2 M 10 x 40 x 1	5	7,78	400	1400	1295	<b>1181</b>	1055	915	1,72	2,25
566780	ERIFLEX FLEXIBAR SUMMUM 2 M 5 x 50 x 1	5	5,17	250	1100	1016	<b>930</b>	830	718	1,72	2,25
566800	ERIFLEX FLEXIBAR SUMMUM 2 M 8 x 50 x 1	2	7,87	400	1393	1290	<b>1175</b>	1050	912	1,72	2,25
566810	ERIFLEX FLEXIBAR SUMMUM 2 M 10 x 50 x 1	2	9,68	500	1650	1525	<b>1395</b>	1245	1080	1,72	2,25

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.

# ERIFLEX® FLEXIBAR Accessories



## ERIFLEX FLEXIBAR Kits

- Application : connections between busbar and fixed switchgear
- Kit is comprised of ERIFLEX® FLEXIBAR preformed and punched at the 2 extremities & end covers
- Only 1 kit for 3 configurations
- Intensity range : from 250A to 630A
- RoHS compliant



IEC 60439.1 &  
IEC 61439.1

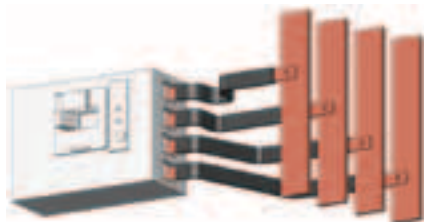
CE

## ERIFLEX FLEXIBAR End Cover 20, 24 & 32

End Cover 20, 24 & 32

- End Cover 20: Accessory for ERIFLEX FLEXIBAR 20 mm, Kit 250A T, Kit 250A TN, IBS 25, IBS 50, IBSB 50 and IBSB 70.
- End Cover 24: Accessory for ERIFLEX FLEXIBAR 24 mm and IBSB 100
- End Cover 32: Accessory for ERIFLEX FLEXIBAR 32 mm, Kit 630A T, Kit 630A TN, IBSB 120, 185 and 240.
- Visual inspection of connection (transparent cover)
- Halogen-free
- Self-extinguishing: UL®94 V-0
- RoHS compliant
- Easy-fitting after bolting

### ERIFLEX FLEXIBAR Kit 250A

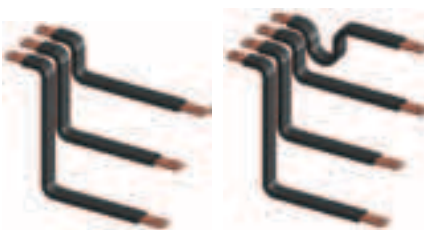


3 Phases

3 Phases  
+ Neutral

KIT 250A T

KIT 250A TN



### ERIFLEX FLEXIBAR Kit 630A

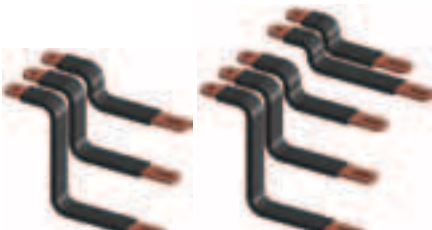


3 Phases

3 Phases  
+ Neutral

KIT 630A T

KIT 630A TN



Part No.	Description		kg/lbs
541800	Kit 250A T	1	0,76/1.68
541805	Kit 250A TN	1	0,98/2.16

Part No.	Description		kg/lbs
541810	Kit 630A T	1	2,10/4.63
541815	Kit 630A TN	1	3,10/6.83

Part No.	Description		kg/lbs
541774	End Cover 20	12	0,19/0.42
541775	End Cover 24	12	0,22/0.48
541776	End Cover 32	12	0,26/0.57



## ERIFLEX FLEXIBAR Spacer Clamps

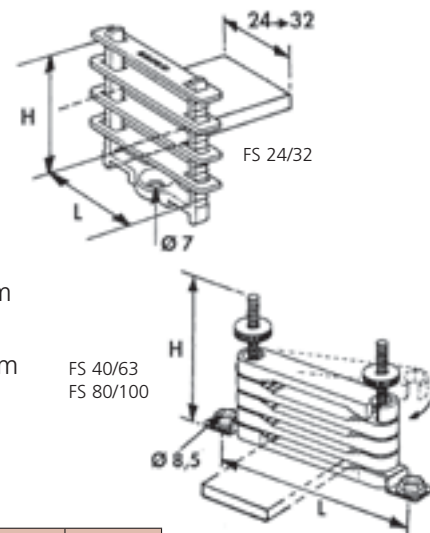
- Easy to install
- Provides support
- Allows for proper cooling



## FS ERIFLEX FLEXIBAR Spacer Clamp



- Helps ensure correct support for ERIFLEX FLEXIBAR, IBSB & IBSBR in parallel, without damage to the insulation.
- Helps ensure correct space for optimum cooling.
- 4 ERIFLEX FLEXIBAR in parallel maximum
- UL 67
- Recommended distance between clamps: 400 mm

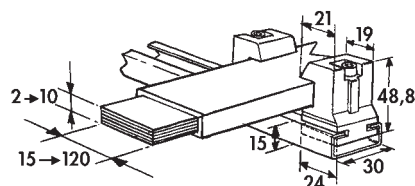


## UFS Kit ERIFLEX FLEXIBAR Support



Assembly comprised of a 2 m aluminum section and 24 retaining blocks made of glass-reinforced halogen-free polyamide.

- Possible to make up 3 supports, 650 mm long each for 4 ERIFLEX FLEXIBAR
- Recommended distance between clamps: 400 mm max.



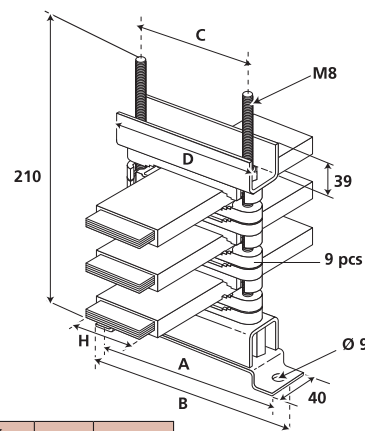
Part No.	Description		Kg
553590	UFS Kit	1	2,3

Part No.	Description	Type*	H mm	L mm		Kg
553550	FS 24	=< 24 mm	53	30	25	0,015
553560	FS 32	=< 32 mm	53	38	25	0,018
553570	FS 40-63	40-50 & 63 mm	95	150	10	0,100
553580	FS 80-100	80/100 mm	140	200	10	0,250

\* Type of ERIFLEX FLEXIBAR and IBS/IBSB/IBSBR

## RFS Reinforced ERIFLEX FLEXIBAR Support

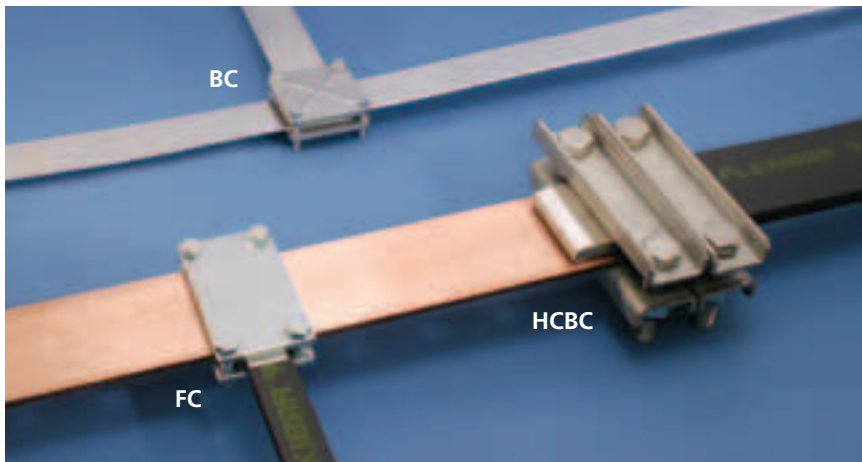
- Allows up to 8 ERIFLEX FLEXIBAR in parallel.
- Easy mounting in the panel. (25 mm pitch)
- Recommended distance between clamps: 400 mm



Part No.	Description	A mm	B mm	C mm	D mm	ERIFLEX FLEXIBAR H mm		Kg
553370	RFS 40-63	150	175	90	120	40=>63	1	0,240
553380	RFS 80-100	200	225	140	170	80=>100	1	0,300



# ERIFLEX® FLEXIBAR Accessories

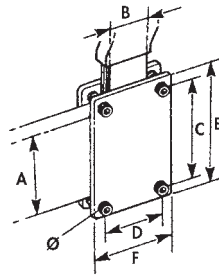


## Connecting Clamps

- Allows excellent electrical contact
- Very compact: space saving
- Quick installation
- Ideal for "on site" modifications

### FC ERIFLEX® FLEXIBAR Clamp

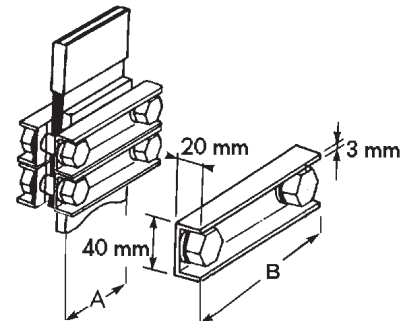
- Clamping capacity: 20 mm
- 2 zinc plated steel plates complete with M8 screws 8.8 class



Part No.	Description	A mm	B mm	C mm	D mm	E mm	F mm	Torque N.m		Kg
553020	FC 50 x 24	50	20-24	60	36	75	52	10	3	0,319
553030	FC 50 x 32	50	32	60	44	75	60	10	3	0,362
553040	FC 50 x 40	80	40	60	52	75	68	10	3	0,412
553050	FC 80 x 24	80	20-24	90	36	105	52	10	3	0,432
553060	FC 80 x 32	80	32	90	44	105	60	10	3	0,492
553070	FC 80 x 50	80	50	90	62	105	78	10	3	0,642
568700	FC 100 x 32	100	32	110	44	125	60	10	3	0,670
568730	FC 120 x 32	120	32	130	44	125	60	10	3	0,760

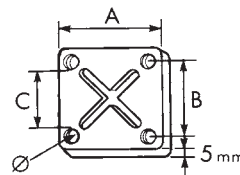
### HCBC High Current Busbar Clamp

- Clamping capacity: 40 mm
- This modular busbar clamp is designed with non-magnetic materials for high current connections between ERIFLEX® FLEXIBAR and rigid busbars such as transformer terminals
- Its mechanical design assures rigidity and even contact pressure
- Use 2 clamps to guarantee the contact pressure



Part No.	Description	A mm	B mm	Torque N.m		Kg
553100	HSBC 80	80	140	100	1	0,84
553110	HSBC 100	100	160	100	1	0,92
553120	HSBC 120	120	180	100	1	1,00

### BC Ribbed-Steel Busbar Clamp



- Clamping capacity: 20 mm
- 2 ribbed zinc-plated hardened-steel plates complete with screws
- Maximum clamping capacity is 50 mm using longer screws 8.8 class
- UL® 67 recognized

Part No.	Description	A mm	B mm	C mm	Ø mm	Torque N.m		Kg
553200	BC 30	56	42	30	M6	7	8	0,31
553210	BC 40	66	52	40	M6	7	8	0,37
553220	BC 50	83	64	50	M8	20	8	0,59
553230	BC 63	93	74	63	M8	20	4	0,74
553250	BC 80	118	96	80	M10	40	4	0,118
553260	BC 100	144	118	100	M10	40	4	1,72





## FBC

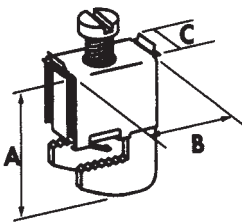
### Connectors for Connecting without Drilling

- Very compact connector for connecting without drilling to a 5 mm or 10 mm thick busbar
- Cables from 1 mm<sup>2</sup> up to 185 mm<sup>2</sup> or ERIFLEX® FLEXIBAR width 6 mm to 20 mm
- Self-support of connector during mounting procedure

### ERIFLEX FLEXIBAR Type

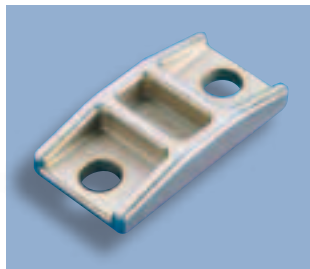
Connectors for busbar thickness 5 mm

Part No.	Description	A mm	B mm	C mm	ERIFLEX FLEXIBAR Type (mm)	Torque N.m	Cable Size mm <sup>2</sup>		Kg
553405	FBC 5 x 4	23	29	11	-	2	1 - 4	15	0,016
553400	FBC 5 x 6	28	31	14	6	3	2,5 - 16	15	0,028
553410	FBC 5 x 9	36	40	19	9	6-8	16 - 50	15	0,068
553510	FBC 5 x 15,5	44	40	25	15,5	10-12	35 - 70	15	0,110
553520	FBC 5 x 20	48	40	31	20	12-15	70 - 185	15	0,132



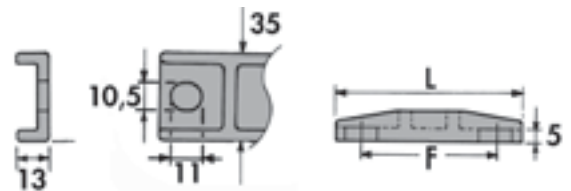
Connectors for busbar thickness 10 mm

Part No.	Description	A mm	B mm	C mm	ERIFLEX FLEXIBAR Type (mm)	Torque N.m	Cable Size mm <sup>2</sup>		Kg
553505	FBC 10 x 4	28	29	12	-	2	1 - 4	15	0,018
553430	FBC 10 x 6	33	31	14	6	3	2,5 - 16	15	0,030
553440	FBC 10 x 9	42	40	19	9	6 - 8	16 - 50	15	0,070
553530	FBC 10 x 15,5	49	40	25	15,5	10 - 12	35 - 70	15	0,112
553540	FBC 10 x 20	54	40	31	20	12 - 15	70 - 185	15	0,138

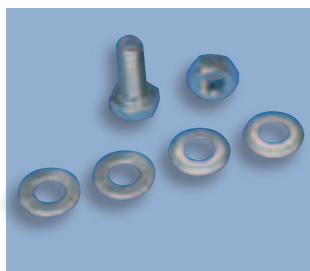


## QCC Clamps ERIFLEX FLEXIBAR

- For ERIFLEX FLEXIBAR thickness ≤ 5 mm = 1 clamp
- For ERIFLEX FLEXIBAR thickness > 5 mm = 2 clamps



Part No.	Description	ERIFLEX FLEXIBAR width		L mm	F mm		Kg
		min. mm	max. mm				
561200	QCC 6/13	6	13	48	25	5	0,068
561210	QCC 15,5/32	15,5	32	70	50	5	0,112
561220	QCC 40/63	40	63	95	75	5	0,158

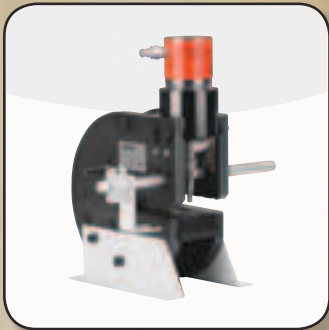


## Cont Kit Metal Nuts and Bolts Contact Kit

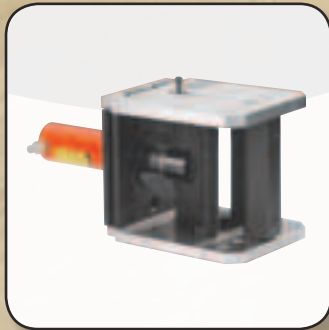
- For good electrical contact
- 100 nuts - 100 bolts - 200 flat washers
- 200 contact washers (class 8/8 ZNBC protection)

Part No.	Description	Dimensions	Torque N.m		Kg
558310	Cont Kit M6 x 16	HM 6 x 16	13	100	0,012
558340	Cont Kit M8 x 30	HM 8 x 30	30	100	0,028
558370	Cont Kit M10 x 30	HM 10 x 30	60	100	0,052
558410	Cont Kit M10 x 50	HM 10 x 50	60	100	0,062
558440	Cont Kit M12 x 30	HM 12 x 30	110	100	0,081
558460	Cont Kit M12 x 40	HM 12 x 40	110	100	0,091
558480	Cont Kit M12 x 50	HM 12 x 50	110	100	0,097
558880	Cont Kit M12 x 60	HM 12 x 60	110	100	0,116
558490	Cont Kit M12 x 80	HM 12 x 80	110	100	0,150

# ERIFLEX® FLEXIBAR and Busbar Hydraulic Work Center



Hydraulic Busbar & ERIFLEX FLEXIBAR Puncher



Hydraulic Busbar Bender



Hydraulic Busbar Cutter



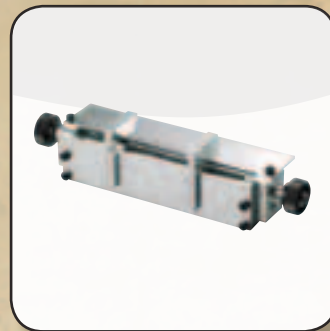
Shearing Tool Ruler



Hydraulic Pump & Foot Controller



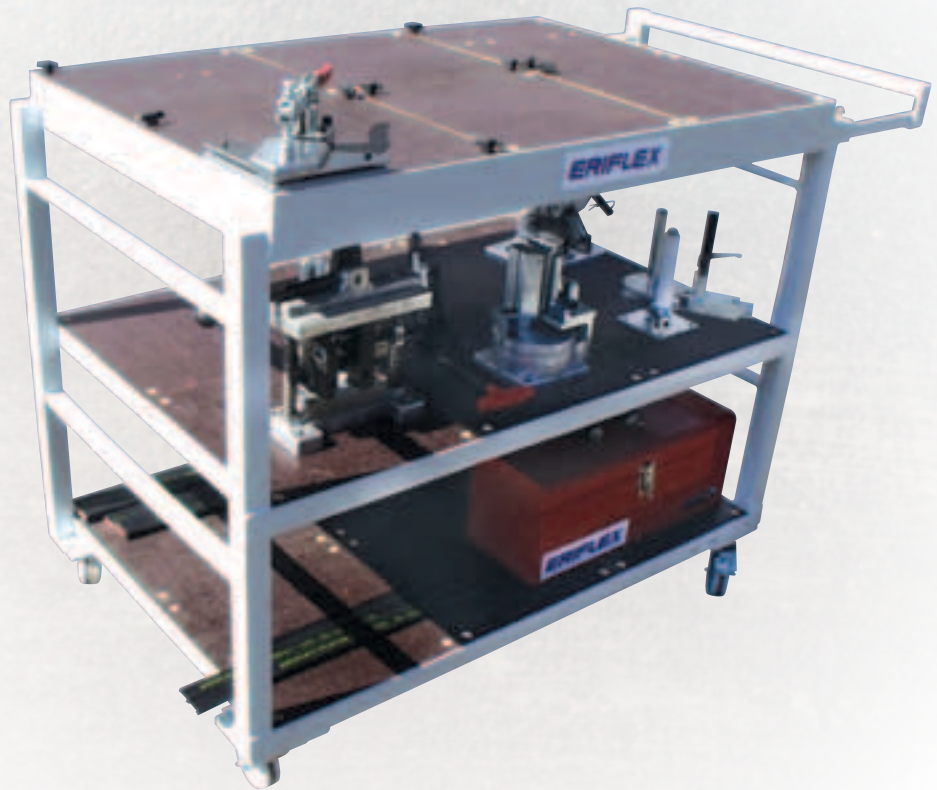
Hydraulic ERIFLEX FLEXIBAR Shearing Tool



Shearing Tool Guide



**NEW**



Shearing Tool



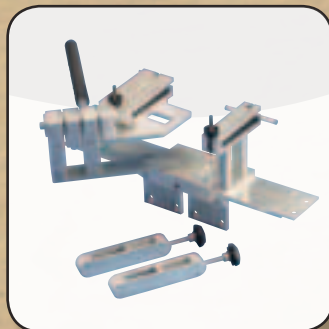
Bending Tool



Twisting Tool



ERIFLEX® FLEXIDRILL



Folding Tool



Stripping Tool



Stripping Knife



Bending Tool

# Insulated Braided Conductor (IBSB & IBSBR)



**NEW**



**Insulated braided conductors suitable for all the main molded case circuit breakers worldwide.**



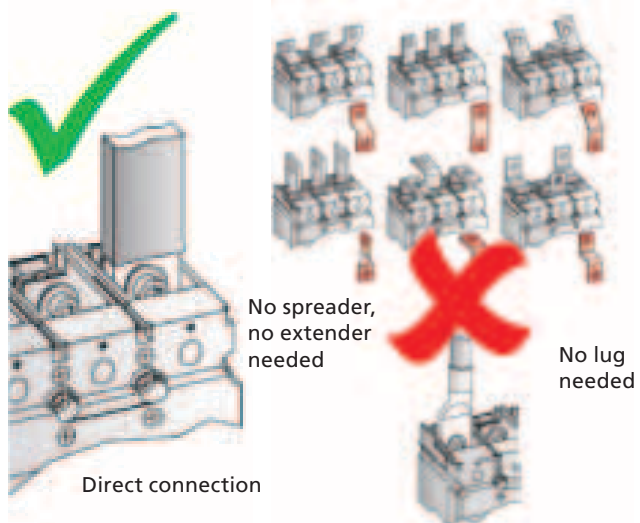
## Insulated Braided Conductor Technical Characteristics

- IBSB and IBSBR are specially designed and developed to be suitable and connectable for molded case circuit breaker ranges, including most compact breakers on the market
- IBSB and IBSBR are formed with high-quality electrolytic copper wire (diameter 0,15 mm for maximum flexibility)
- Material savings: Integral palm without lugs or terminals
- Quick and easy to install: Ready to use. No cutting, stripping, crimping or punching. Less labor time for installation
- Weight savings: A flat braid weighs less than a cable (with insulation) and lugs. Offers better copper usage (Skin Effect)
- The insulation is a high-resistance self-extinguishing PVC – 105°C working temperature maximum
- Full application range: 80 A to 630 A (section 25, 50, 70, 100, 120, 185 and 240 mm<sup>2</sup>), with 230 up to 1030 mm length
- Reliability – No extra contact due to the lugs being crimped at the extremities of the cables. Integral palm without tin addition or crimped lug for an excellent electrical contact.
- Resistant to vibration - ideal alternative to cable

## Ideal connection for molded case circuit breakers

The IBSB and IBSBR range can be used as an alternative to cable for all low-voltage applications. It is suitable and connectable for molded case circuit breaker ranges, including most compact breakers on the market. From 80 A up to 630 A circuit breakers, you can directly connect the IBSB/IBSBR on the front access terminals breaker without additional accessories, such as angular connectors, spreaders, ring terminal connectors or extenders. No lugs and no cutting, stripping, or crimping are necessary.

**Very simple! Very quick! Ready to use!**





## Insulated Braided Conductor (IBSB & IBSBR)



### The optimised alternative to cable - Ready to use.

ERICO has developed a unique, state-of-the-art manufacturing line to massivate directly the palms of IBSB and IBSBR braids.

The innovative manufacturing process provides an effective electrical contact, due to the integral palms, without the addition of tin or crimped lugs. This process welds the flexible braid and brings back a **solid tinned or red copper block as a palm**. Unlike the traditional press-welded palms process, ERICO's process is suitable for red copper, but also for tinned plated copper. The electrical contact between each wire is optimized.

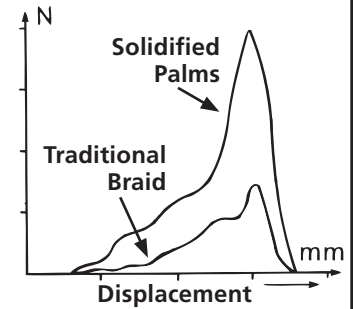
This ERICO process also helps eliminate moisture issues in the palms. By using crimped lugs in a severe environment, moisture can enter in the lug (often by capillarity) and create corrosion between each wire. After several years, the electrical contact between each wire can deteriorate and alter the electrical conductivity of the equipment. The corrosion in the palm is impossible to remove without changing the element.

This process produces RoHS products; no additional substances are added to the tinned-plated wires during the manufacturing process.

# Insulated Braided Conductor (IBSB & IBSBR)



## Comparison of tensile strength



## Nominal clamping force



## Technical data

- Excellent electrical contact with integral palm construction
- Good tensile strength

### Insulation

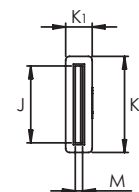
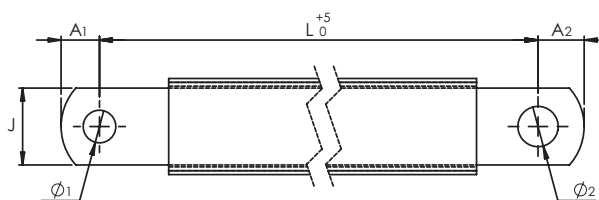
- High resistance: vinyl compound
- Maximum working temperature: 105° C
- Self-extinguishable: UL 94 V0
- Dielectric strength: 20 kV/mm
- Max. working voltage: 1000 V AC-1500 V DC-IEC & UL 758
- Max. working voltage: 600V AC/DC – UL 67

### Braid



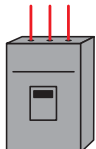
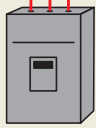
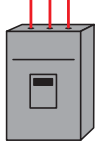

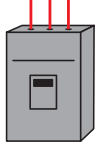
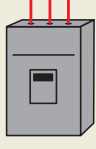
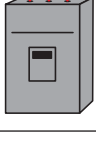
- Tinned (IBSB 25-50-70-100) or red (IBSBR 120-185-240) electrolytic copper
- Wire diameter: 0.15 mm for maximum flexibility - According to EN 13602
- Very good resistance to vibration

### Certification & Approvals

- IEC 60439.1 & IEC 61439.1
- cRUus per UL67 & CAN/CSA C22.2 No. 29
- RU per UL758
- CE conformity
- RoHS compliance

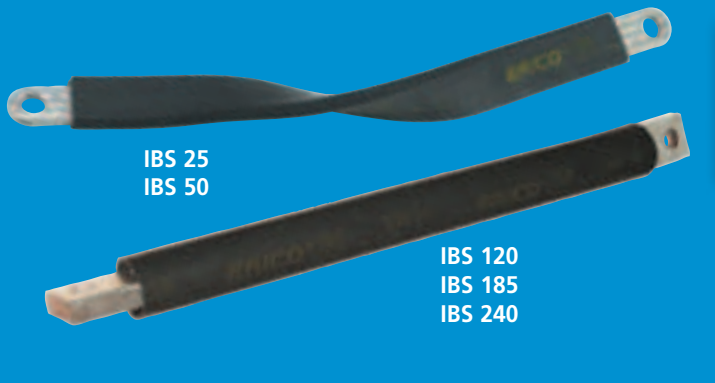


# Insulated Braided Conductor (IBSB & IBSBR)

Use with circuit breaker	Part Number	Description	S mm <sup>2</sup>	L mm	Ø1 mm	Ø2 mm	A1 mm	A2 mm	J mm	M mm	K1 mm	K2 mm		 Kg
<b>IBSB - Tinned Copper</b>														
<b>125/160A</b>  <b>IBSB 25</b>	558500	IBSB 25-230-6	25	230	6,5	6,5	7,5	7,5	12	2,8	9	18	10	0,08
	558501	IBSB 25-330-6	25	330	6,5	6,5	7,5	7,5	12	2,8	9	18	10	0,11
	558502	IBSB 25-430-6	25	430	6,5	6,5	7,5	7,5	12	2,8	9	18	10	0,15
	558503	IBSB 25-530-6	25	530	6,5	6,5	7,5	7,5	12	2,8	9	18	10	0,18
	558504	IBSB 25-630-6	25	630	6,5	6,5	7,5	7,5	12	2,8	9	18	10	0,22
	558505	IBSB 25-830-6	25	830	6,5	6,5	7,5	7,5	12	2,8	9	18	10	0,28
	558506	IBSB 25-1030-6	25	1030	6,5	6,5	7,5	7,5	12	2,8	9	18	10	0,35
<b>250A</b>  <b>IBSB 50</b>	558507	IBSB 50-230-8-10	50	230	8,5	10,5	9	11	20	3	9	27	10	0,15
	558508	IBSB 50-330-8-10	50	330	8,5	10,5	9	11	20	3	9	27	10	0,21
	558509	IBSB 50-430-8-10	50	430	8,5	10,5	9	11	20	3	9	27	10	0,27
	558510	IBSB 50-530-8-10	50	530	8,5	10,5	9	11	20	3	9	27	10	0,33
	558511	IBSB 50-630-8-10	50	630	8,5	10,5	9	11	20	3	9	27	10	0,39
	558512	IBSB 50-830-8-10	50	830	8,5	10,5	9	11	20	3	9	27	10	0,52
	558513	IBSB 50-1030-8-10	50	1030	8,5	10,5	9	11	20	3	9	27	10	0,64
<b>300A</b>  <b>IBSB 70</b>	558514	IBSB 70-230-8-10	70	230	8,5	10,5	9	11	20	4,3	11	27	10	0,197
	558515	IBSB 70-330-8-10	70	330	8,5	10,5	9	11	20	4,3	11	27	10	0,28
	558516	IBSB 70-430-8-10	70	430	8,5	10,5	9	11	20	4,3	11	27	10	0,362
	558517	IBSB 70-530-8-10	70	530	8,5	10,5	9	11	20	4,3	11	27	10	0,444
	558518	IBSB 70-630-8-10	70	630	8,5	10,5	9	11	20	4,3	11	27	10	0,527
	558519	IBSB 70-830-8-10	70	830	8,5	10,5	9	11	20	4,3	11	27	10	0,692
	558520	IBSB 70-1030-8-10	70	1030	8,5	10,5	9	11	20	4,3	11	27	10	0,857
<b>350A</b>  <b>IBSB 100</b>	558521	IBSB 100-230-8-10	100	230	8,5	10,5	9	11	24	5	13	31	10	0,27
	558522	IBSB 100-330-8-10	100	330	8,5	10,5	9	11	24	5	13	31	10	0,39
	558523	IBSB 100-430-8-10	100	430	8,5	10,5	9	11	24	5	13	31	10	0,50
	558524	IBSB 100-530-8-10	100	530	8,5	10,5	9	11	24	5	13	31	10	0,62
	558525	IBSB 100-630-8-10	100	630	8,5	10,5	9	11	24	5	13	31	10	0,73
	558526	IBSB 100-830-8-10	100	830	8,5	10,5	9	11	24	5	13	31	10	0,96
	558527	IBSB 100-1030-8-10	100	1030	8,5	10,5	9	11	24	5	13	31	10	1,19
<b>IBSBR - Red Copper</b>														
<b>400A</b>  <b>IBSBR 120</b>	558528	IBSBR 120-230-10	120	230	10,5	10,5	11	11	32	4,4	12	39	2	0,33
	558529	IBSBR 120-330-10	120	330	10,5	10,5	11	11	32	4,4	12	39	2	0,47
	558530	IBSBR 120-430-10	120	430	10,5	10,5	11	11	32	4,4	12	39	2	0,6
	558531	IBSBR 120-530-10	120	530	10,5	10,5	11	11	32	4,4	12	39	2	0,74
	558532	IBSBR 120-630-10	120	630	10,5	10,5	11	11	32	4,4	12	39	2	0,88
	558533	IBSBR 120-830-10	120	830	10,5	10,5	11	11	32	4,4	12	39	2	1,15
	558534	IBSBR 120-1030-10	120	1030	10,5	10,5	11	11	32	4,4	12	39	2	1,43
<b>500A</b>  <b>IBSBR 185</b>	558535	IBSBR 185-330-10-12	185	330	10,5	12,5	12	14	32	7,1	16	39	2	0,7
	558536	IBSBR 185-430-10-12	185	430	10,5	12,5	12	14	32	7,1	16	39	2	0,9
	558537	IBSBR 185-530-10-12	185	530	10,5	12,5	12	14	32	7,1	16	39	2	1,1
	558538	IBSBR 185-630-10-12	185	630	10,5	12,5	12	14	32	7,1	16	39	2	1,3
	558539	IBSBR 185-830-10-12	185	830	10,5	12,5	12	14	32	7,1	16	39	2	1,7
	558540	IBSBR 185-1030-10-12	185	1030	10,5	12,5	12	14	32	7,1	16	39	2	2,1
<b>630A</b>  <b>IBSBR 240</b>	558541	IBSBR 240-330-10-12	240	330	10,5	12,5	12	14	32	9,2	18,5	39	2	0,89
	558542	IBSBR 240-430-10-12	240	430	10,5	12,5	12	14	32	9,2	18,5	39	2	1,14
	558543	IBSBR 240-530-10-12	240	530	10,5	12,5	12	14	32	9,2	18,5	39	2	1,4
	558544	IBSBR 240-630-10-12	240	630	10,5	12,5	12	14	32	9,2	18,5	39	2	1,65
	558545	IBSBR 240-830-10-12	240	830	10,5	12,5	12	14	32	9,2	18,5	39	2	2,16
	558546	IBSBR 240-1030-10-12	240	1030	10,5	12,5	12	14	32	9,2	18,5	39	2	2,67



# Insulated Braided Conductor (IBS)



## Insulated Braided Conductor Technical Characteristics

- The ideal alternative to cable
- No cutting, no stripping, no crimping
- More flexible connection
- Pre-punched: ready to use
- Quick and easy to install
- Excellent electrical contact
- Tinned electrolytic copper for better corrosion protection
- Very good resistance to vibration
- Volume reduction inside the panel board

### Technical Data

- Intensity = 100A up to 1000A
- Excellent electrical contact
- Good tensile strength



### Insulation

- High resistance : vinyl compound
- Max. working temperature : 105°C
- Self-extinguishable: UL® 94 VO
- Dielectric strength: 20 kV/mm
- Max. working voltage:  
1000 V AC-1500 V DC-IEC & UL 758
- Max. working voltage:  
600V AC/DC – UL 67

### Braid

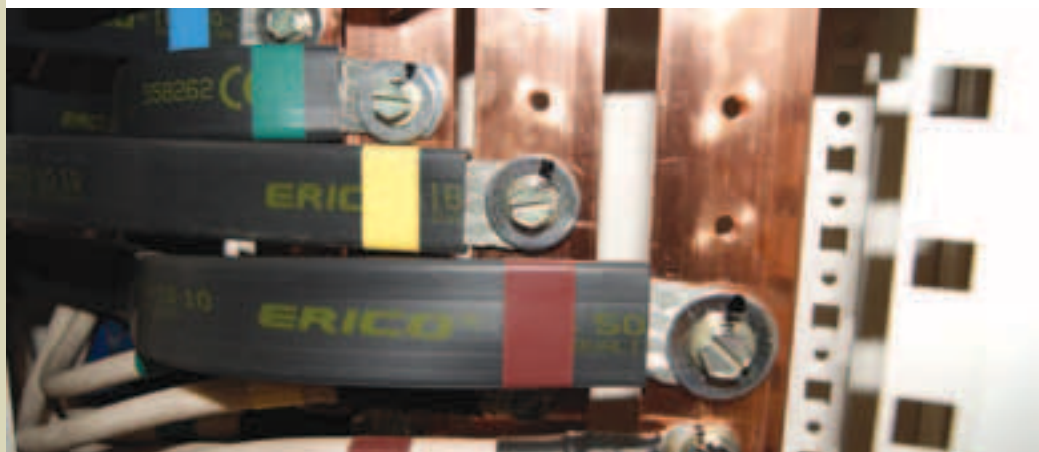
- Tinned electrolytic copper for better corrosion protection
- Wire diameter: 0.15 mm for maximum flexibility
- Very good resistance to vibration

### Certification & Approval

- IEC 60439.1 & IEC 61439.1
- cRUus per UL67 & CAN/CSA C22.2 No. 29
- CE conformity
- RoHS compliance
- RU per UL758

### Dielectric Test

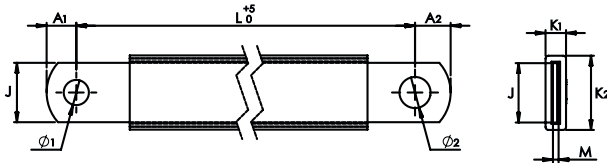
- 3500 V<sub>AC</sub>, 1 minute according to the IEC 60439.1 standard (rated insulation voltage U<sub>i</sub> 1000 V<sub>AC</sub>)
- 6000 V<sub>AC</sub>, 1 minute with 6 mA creepage current set up





# Insulated Braided Conductor (IBS)

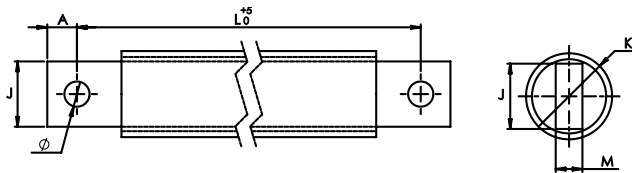
IBS 25  
IBS 50



	Part No.	IBS 25	S mm <sup>2</sup>	L mm	Ø1 mm	Ø2 mm	A1 mm	A2 mm	J mm	M mm	K1 mm	K2 mm		Kg
160 A	558240	IBS 25-230-8-10	25	230	8,5	10,5	10	12	20	1,9	6	25	10	0,095
	558241	IBS 25-330-8-10	25	330	8,5	10,5	10	12	20	1,9	6	25	10	0,14
	558242	IBS 25-430-8-10	25	430	8,5	10,5	10	12	20	1,9	6	25	10	0,17
	558243	IBS 25-530-8-10	25	530	8,5	10,5	10	12	20	1,9	6	25	10	0,21
	558244	IBS 25-630-8-10	25	630	8,5	10,5	10	12	20	1,9	6	25	10	0,25
	558249	IBS 25-830-8-10	25	830	8,5	10,5	10	12	20	1,9	6	25	10	0,33
	558250	IBS 25-1030-8-10	25	1030	8,5	10,5	10	12	20	1,9	6	25	10	0,41

	Part No.	IBS 50	S mm <sup>2</sup>	L mm	Ø1 mm	Ø2 mm	A1 mm	A2 mm	J mm	M mm	K1 mm	K2 mm		Kg
250 A	558260	IBS 50-230-10	50	230	10,5	10,5	12	12	20	3,8	7,5	25	10	0,16
	558261	IBS 50-330-10	50	330	10,5	10,5	12	12	20	3,8	7,5	25	10	0,22
	558262	IBS 50-430-10	50	430	10,5	10,5	12	12	20	3,8	7,5	25	10	0,29
	558263	IBS 50-530-10	50	530	10,5	10,5	12	12	20	3,8	7,5	25	10	0,35
	558264	IBS 50-630-10	50	630	10,5	10,5	12	12	20	3,8	7,5	25	10	0,41
	558255	IBS 50-830-10	50	830	10,5	10,5	12	12	20	3,8	7,5	25	10	0,53
	558256	IBS 50-1030-10	50	1030	10,5	10,5	12	12	20	3,8	7,5	25	10	0,65

IBS 120  
IBS 185  
IBS 240

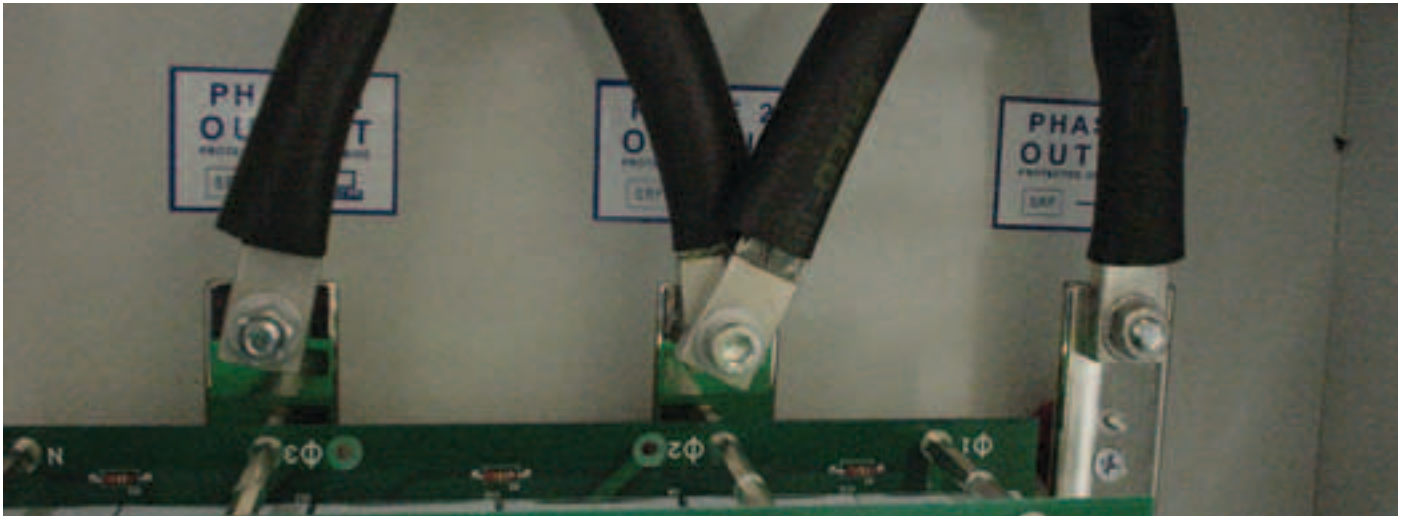




	Part No.	IBS 120	S mm <sup>2</sup>	L mm	Ø mm	A mm	J mm	M mm	K mm		Kg
400 A	558270	IBS 120-330-10	120	330	10,5	12	24	10	27	2	0,51
	558271	IBS 120-430-10	120	430	10,5	12	24	10	27	2	0,67
	558272	IBS 120-530-10	120	530	10,5	12	24	10	27	2	0,82
	558273	IBS 120-630-10	120	630	10,5	12	24	10	27	2	0,98
	558274	IBS 120-830-10	120	830	10,5	12	24	10	27	2	1,29
	558276	IBS 120-1030-10	120	1030	10,5	12	24	10	27	2	1,6

	Part No.	IBS 185	S mm <sup>2</sup>	L mm	Ø mm	A mm	J mm	M mm	K mm		Kg
500 A	558290	IBS 185-330-10	185	330	10,5	12	24	15	31	2	0,82
	558291	IBS 185-430-10	185	430	10,5	12	24	15	31	2	1,07
	558292	IBS 185-530-10	185	530	10,5	12	24	15	31	2	1,26
	558293	IBS 185-630-10	185	630	10,5	12	24	15	31	2	1,48
	558294	IBS 185-830-10	185	830	10,5	12	24	15	31	2	1,9
	558295	IBS 185-1030-10	185	1030	10,5	12	24	15	31	2	2,3

	Part No.	IBS 240	S mm <sup>2</sup>	L mm	Ø mm	A mm	J mm	M mm	K mm		Kg
630 A	558280	IBS 240-330-12	240	330	12,5	13	32	15	36	2	1,03
	558281	IBS 240-430-12	240	430	12,5	13	32	15	36	2	1,34
	558282	IBS 240-530-12	240	530	12,5	13	32	15	36	2	1,65
	558283	IBS 240-630-12	240	630	12,5	13	32	15	36	2	1,96
	558284	IBS 240-830-12	240	830	12,5	13	32	15	36	2	2,58
	558285	IBS 240-1030-12	240	1030	12,5	13	32	15	36	2	3,2

# Insulated Braided Conductor (IBS, IBSB & IBSBR)

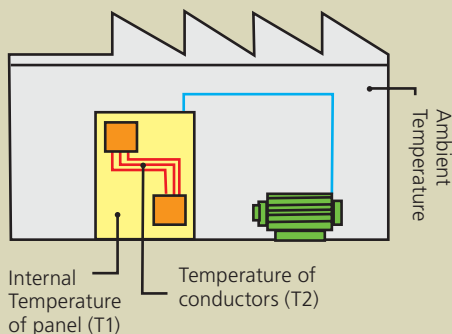


Insulated Braided conductor type	Section mm <sup>2</sup>	ΔT (K)							Current Coefficient	
		30	40	45	50	55	60	70		
IBS 25	25	137	158	167	177	185	193	209	1,6	2
IBSB 25	25	116	134	142	150	157	164	177	1,6	2
IBS 50	50	213	246	260	274	288	301	325	1,6	2
IBSB 50	50	213	246	260	274	288	301	325	1,6	2
IBSB 70	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.



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



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

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

$T_1 = 40^\circ\text{C} - T_2 = 90^\circ\text{C}$

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

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

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

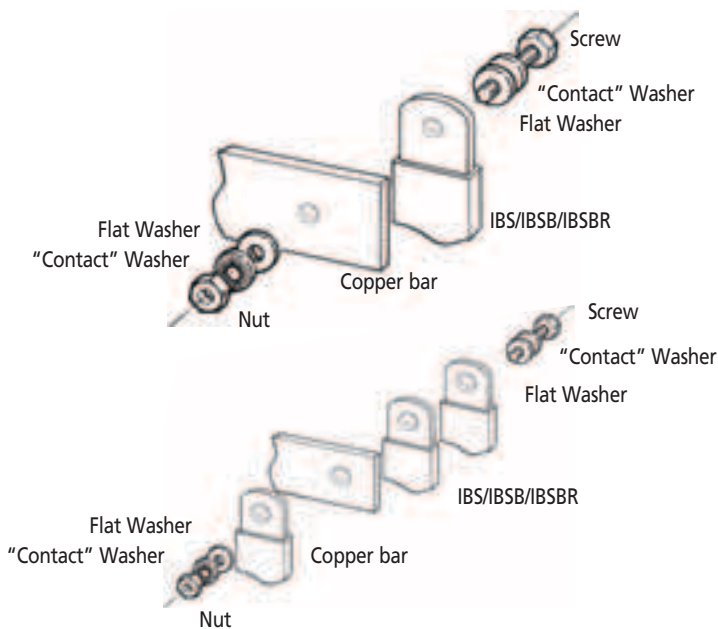
2 braids in parallel >  $385 \text{ A} \times 1,6 = 616 \text{ A}$

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

# Insulated Braided Conductor (IBS, IBSB & IBSBR)

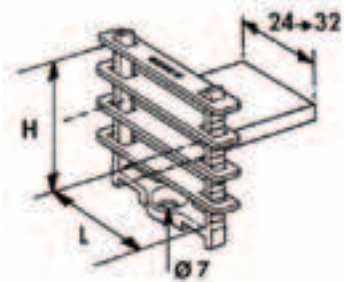


## Assembly Instructions



**Space between 2 or 3 insulated braided conductors in parallel, for cooling.**

A minimum air gap is required. Use FS type spacer clamp.



Designation	Part No.	For insulated braided conductor type
FS 24	553550	IBS 25 / 50
		IBSB 25 / 50 / 70 / 100
FS 32	553560	IBSBR 120 / 185 / 240



# Earth/Ground Copper Braids (MBJ & BJ)



**Innovative, state-of-the-art manufacturing process.**

ERICO manufacturing directly massivates the palms of the MBJ tinned-plated braids. This manufacturing process provides an effective electrical contact, due to the integral palms, without the addition of tin or crimped lugs.

This process welds the flexible braid and brings back a **solid tinned or red copper block as a palm**. Unlike the traditional press-welded palms process, ERICO's process is suitable for red copper, but also for tin plated copper. The electrical contact between each wire is optimized.

This ERICO process also helps eliminate moisture issues in the palms. By using crimped lugs in a severe environment, moisture can enter in the lug (often by capillarity) and create corrosion between each wire. After several years, the electrical contact between each wire can deteriorate and alter the electrical conductivity of the equipment. The corrosion in the palm is impossible to remove without changing the element.

This process produces RoHS products; **no additional substances** are added to the tinned-plated wires during the manufacturing process.

## Tinned Copper Earth/Ground Braids Technical Characteristics

### With integral palm



- A complete range of earth/ground flexible connections from 6 to 100 mm<sup>2</sup> section and from 100 to 500 mm length
- Good resistance to vibration and fatigue
- Reliable: No extra contact due to the lugs crimped at the ends of the cable
- Weight savings: A flat braid weighs less than a cable (with insulation) and lugs and offers better copper usage (Skin Effect)
- Integral palm, without tin or crimped lugs for superior electrical contact and tensile strength resistance
- Quick and easy to install: Ready to use. No cutting, stripping, crimping or punching. Less labor time for installation
- Material savings: No lugs or terminals
- Recommended by the EMC/EMI directives and less impedance than cables



## BJ



Round braids with crimped lugs

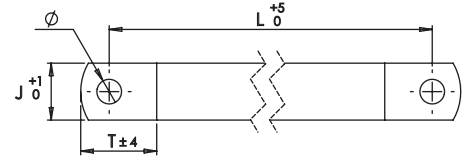
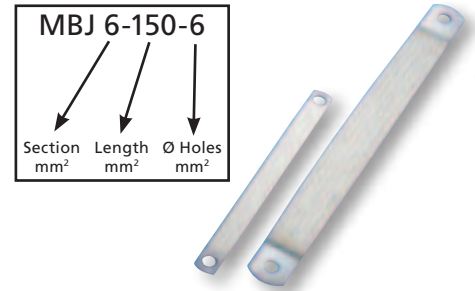


Part No.	Description	Section mm	L mm	Ø D mm	Intensity A		 Kg
556900	BJ 6-150 S	6	150	6,5	45	10	0,010
556910	BJ 6-200 S	6	200	6,5	45	10	0,015
556920	BJ 10-300 S	10	300	6,5	75	10	0,033



# Earth/Ground Copper Braids (MBJ & BJ)

Part Number	Description	Intensity A	Thickness mm	Section mm <sup>2</sup>	L mm	Ø mm	J mm	T mm		 Kg
556600	MBJ 6-150-6	40	1,1	6	150	6,5	11	23	10	0,01
563410	MBJ 6-200-6	40	1,1	6	200	6,5	11	23	10	0,0167
556930	MBJ 10-200-6	75	1,1	10	200	6,5	11	22	10	0,022
556610	MBJ 10-300-6	75	1,1	10	300	6,5	11	22	10	0,033
563540	MBJ 16-100-6	120	1,5	16	100	6,5	15	25	10	0,018
556620	MBJ 16-100-8	120	1,5	16	100	8,5	15	25	10	0,018
563550	MBJ 16-150-6	120	1,5	16	150	6,5	15	25	10	0,035
556630	MBJ 16-150-8	120	1,5	16	150	8,5	15	25	10	0,035
563300	MBJ 16-200-6	120	1,5	16	200	6,5	15	25	10	0,033
556640	MBJ 16-200-8	120	1,5	16	200	8,5	15	25	10	0,033
556650	MBJ 16-250-8	120	1,5	16	250	8,5	15	25	10	0,04
563320	MBJ 16-300-6	120	1,5	16	300	6,5	15	25	10	0,05
556660	MBJ 16-300-8	120	1,5	16	300	8,5	15	25	10	0,05
556940	MBJ 16-500-8	120	1,5	16	500	8,5	15	25	10	0,082
556670	MBJ 25-100-10	150	1,5	25	100	10,5	22	33	10	0,027
556680	MBJ 25-150-10	150	1,5	25	150	10,5	22	33	10	0,039
563340	MBJ 25-200-6	150	1,5	25	200	6,5	22	33	10	0,052
556690	MBJ 25-200-10	150	1,5	25	200	10,5	22	33	10	0,052
563430	MBJ 25-200-12	150	1,5	25	200	12,5	22	33	10	0,052
556700	MBJ 25-250-10	150	1,5	25	250	10,5	22	33	10	0,064
556710	MBJ 25-300-10	150	1,5	25	300	10,5	22	33	10	0,077
556950	MBJ 25-500-10	150	1,5	25	500	10,5	22	33	10	0,13
556720	MBJ 30-100-10	180	2	30	100	10,5	22	33	10	0,032
556730	MBJ 30-150-10	180	2	30	150	10,5	22	33	10	0,047
556740	MBJ 30-200-10	180	2	30	200	10,5	22	33	10	0,062
556750	MBJ 30-250-10	180	2	30	250	10,5	22	33	10	0,075
556760	MBJ 30-300-10	180	2	30	300	10,5	22	33	10	0,092
556960	MBJ 30-500-10	180	2	30	500	10,5	22	33	10	0,155
556770	MBJ 35-100-10	197	2,1	35	100	10,5	22	33	10	0,037
556780	MBJ 35-150-10	197	2,1	35	150	10,5	22	33	10	0,054
556790	MBJ 35-200-10	197	2,1	35	200	10,5	22	33	10	0,072
556800	MBJ 35-250-10	197	2,1	35	250	10,5	22	33	10	0,089
565000	MBJ 35-250-25	197	1,5	35	250	25,5	40	50	10	0,089
556810	MBJ 35-300-10	197	2,1	35	300	10,5	22	33	10	0,11
556970	MBJ 35-500-10	197	2,1	35	500	10,5	22	33	10	0,18
556820	MBJ 50-100-10	250	2,5	50	100	10,5	28	48	10	0,052
556830	MBJ 50-150-10	250	2,5	50	150	10,5	28	48	10	0,077
563350	MBJ 50-200-6	250	2,5	50	200	6,5	28	48	10	0,12
556840	MBJ 50-200-10	250	2,5	50	200	10,5	28	48	10	0,12
563440	MBJ 50-200-12	250	2,5	50	200	12,5	28	48	10	0,12
563360	MBJ 50-200-16	250	2,5	50	200	16,5	28	48	10	0,11
563370	MBJ 50-200-18	250	2,5	50	200	18,5	28	48	10	0,11
556850	MBJ 50-250-10	250	2,5	50	250	10,5	28	48	10	0,127
563380	MBJ 50-300-6	250	2,5	50	300	6,5	28	48	10	0,15
556860	MBJ 50-300-10	250	2,5	50	300	10,5	28	48	10	0,153
563390	MBJ 50-300-16	250	2,5	50	300	16,5	28	48	10	0,15
563400	MBJ 50-300-18	250	2,5	50	300	18,5	28	48	10	0,14
556980	MBJ 50-500-10	250	2,5	50	500	10,5	28	48	10	0,255
563560	MBJ 50-500-12	250	2,5	50	500	12,5	28	48	10	0,255
563450	MBJ 70-300-6	290	5	70	300	6,5	28	48	10	0,21
563460	MBJ 70-300-10	290	5	70	300	10,5	28	48	10	0,21
563420	MBJ 70-300-12	290	5	70	300	12,5	28	48	10	0,21
563470	MBJ 70-300-16	290	5	70	300	16,5	28	48	10	0,2
563480	MBJ 70-300-22	290	3,5	70	300	22,5	40	60	10	0,2
563490	MBJ 70-500-10	290	5	70	500	10,5	28	48	10	0,34
563500	MBJ 100-250-16	349	4	100	250	16,5	50	70	10	0,254
563510	MBJ 100-250-30	349	4	100	250	30,5	50	70	10	0,254
563520	MBJ 100-500-16	349	4	100	500	16,5	50	70	10	0,508
563530	MBJ 100-500-30	349	4	100	500	30,5	50	70	10	0,508



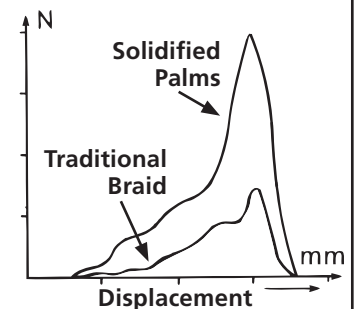
## Technical Data

- Recommended by EMC/EMI directives
- Flat tinned copper braids
- Electrolytic copper Cu-ETP according to standard EN13602
- Copper purity of minimum 99,9%
- Maximum resistivity of 0,017241 mm<sup>2</sup>/m at 20°C
- Standard wire diameter; 0,15 mm
- Bends very close to the contact area
- Working temperature up to 105°C

## Certification & Approvals

- UL® Listed (UL467) except BJ
- GOST certificates
- RoHS 2002/95/EC Compliant
- IEC 60439.1 & 61439.1

## Comparison of tensile strength



## Nominal clamping force



# Earth/Ground Stainless Steel Braids (CPI)



**Ready-to-use stainless steel braids for multiple applications**

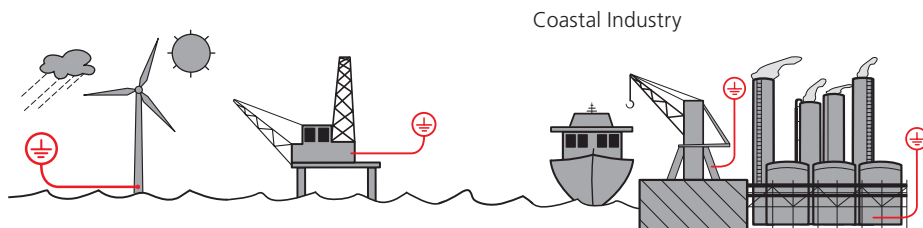
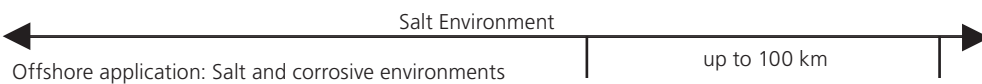
## Stainless Steel Braids Technical Characteristics

- 316L stainless steel braid ready to use
- Full application range: 16 to 70 mm<sup>2</sup> section with 150 to 1100 mm length
- High-quality 316L stainless steel: superior abrasion, corrosion, chemical, and UV resistance for outdoor applications
- Good resistance to vibration and fatigue
- Time savings: Quick and easy to install. Ready to use. No additional cutting, stripping, crimping and punching needed. Less labor time for installation
- Material savings: No additional lugs or terminals needed
- Durable in outdoor, salt and corrosive environments
- Non-magnetic material
- Long maintenance cycle

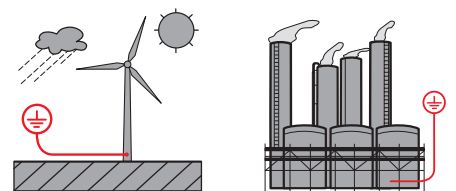
ERICO developed and manufactures a range of earth/ground stainless steel braids. These high-quality 316L stainless steel braids can be installed in extremely corrosive environments, like offshore applications or coastal applications. The CPI braid is ideal for applications using stainless steel pipe or tanks, like the food and beverage industry, building industry, transportation, oil and chemical industry.

ERICO offers 316L stainless steel, one of the highest resistant stainless steel options on the market. ERICO has mastered the process of manufacturing stainless steel for braiding, crimping, cutting or punching and offers a full range of ready-to-use stainless steel braids.

### Where stainless braids can be used:

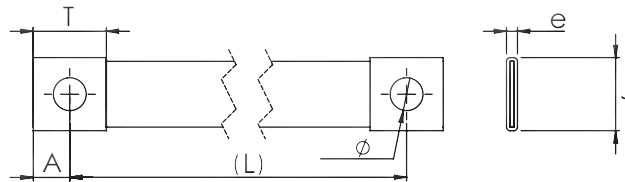
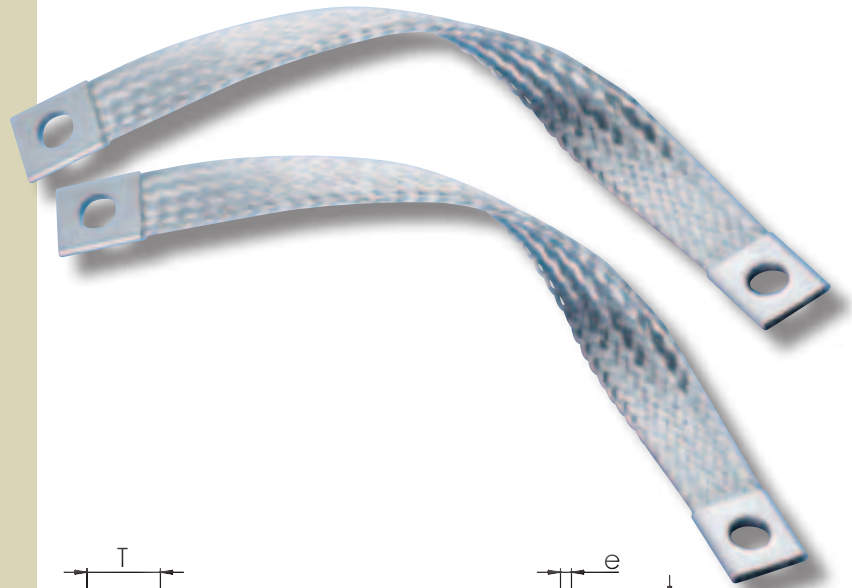


Outdoor application: Oil & chemical industry, food & beverage industry, civil construction, urban projects and transportation



# Earth/Ground Stainless Steel Braids (CPI)

- Superior abrasion, corrosion, chemical and UV resistance make it ideal for outdoor applications
- Great for expansion joints where constant movement requires a flexible and indestructible covering
- Won't rust or discolor, so the appearance will never fade or change
- No additional cutting, stripping, or crimping needed
- More flexible connection
- Pre-punched: ready to use
- Quick and easy to install
- Excellent electrical contact
- Very good resistance to vibration and fatigue
- Recommended by the EMC directives
- Reduced maintenance



## Technical Data



- Excellent electrical contact
- Good tensile strength
- Working temperature up to 105°C

## Braid

- 316L Stainless steel
- Wire diameter: 0,25 mm for maximum flexibility
- Very good resistance to vibration

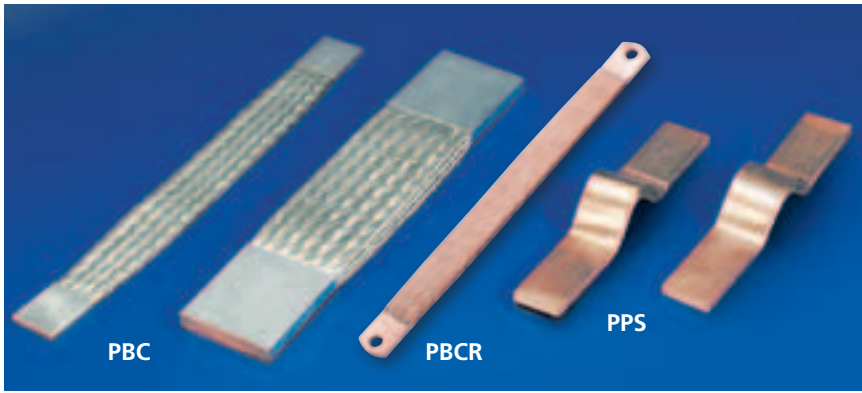
## Certification & Approvals

- UL® Listed UL467 - grounding and bonding equipment for US and Canada
- RoHS Compliant
- IEC 60439.1 & 61439.1

Part Number	Description	Section mm <sup>2</sup>	L mm	Ø mm	J mm	A mm	T mm	e mm		 Kg
554277	CPI 16-150-8	16	150	8,5	17,5	10	20	3	10	0,031
554278	CPI 16-200-8	16	200	8,5	17,5	10	20	3	10	0,037
554279	CPI 16-250-8	16	250	8,5	17,5	10	20	3	10	0,043
554280	CPI 16-300-8	16	300	8,5	17,5	10	20	3	10	0,050
554282	CPI 16-400-8	16	400	8,5	17,5	10	20	3	10	0,062
554286	CPI 16-600-8	16	600	8,5	17,5	10	20	3	10	0,087
554299	CPI 25-150-10	25	150	10,5	26,5	15	30	3,5	10	0,058
554300	CPI 25-200-10	25	200	10,5	26,5	15	30	3,5	10	0,068
554301	CPI 25-250-10	25	250	10,5	26,5	15	30	3,5	10	0,078
554302	CPI 25-300-10	25	300	10,5	26,5	15	30	3,5	10	0,088
554304	CPI 25-400-10	25	400	10,5	26,5	15	30	3,5	10	0,108
554308	CPI 25-600-10	25	600	10,5	26,5	15	30	3,5	10	0,147
554321	CPI 35-150-12	35	150	13	26,5	15	30	4	10	0,071
554322	CPI 35-200-12	35	200	13	26,5	15	30	4	10	0,085
554323	CPI 35-250-12	35	250	13	26,5	15	30	4	10	0,099
554324	CPI 35-300-12	35	300	13	26,5	15	30	4	10	0,112
554326	CPI 35-400-12	35	400	13	26,5	15	30	4	10	0,140
554330	CPI 35-600-12	35	600	13	26,5	15	30	4	10	0,195
554343	CPI 50-150-12	50	150	13	30	15	30	5	10	0,111
554344	CPI 50-200-12	50	200	13	30	15	30	5	10	0,130
554345	CPI 50-250-12	50	250	13	30	15	30	5	10	0,150
554346	CPI 50-300-12	50	300	13	30	15	30	5	10	0,170
554348	CPI 50-400-12	50	400	13	30	15	30	5	10	0,209
554352	CPI 50-600-12	50	600	13	30	15	30	5	10	0,288
554365	CPI 70-150-12	70	150	13	30	15	30	5,8	10	0,139
554366	CPI 70-200-12	70	200	13	30	15	30	5,8	10	0,167
554367	CPI 70-250-12	70	250	13	30	15	30	5,8	10	0,194
554368	CPI 70-300-12	70	300	13	30	15	30	5,8	10	0,222
554370	CPI 70-400-12	70	400	13	30	15	30	5,8	10	0,277
554374	CPI 70-600-12	70	600	13	30	15	30	5,8	10	0,388
554378	CPI 70-800-12	70	800	13	30	15	30	5,8	10	0,498
554384	CPI 70-1100-12	70	1100	13	30	15	30	5,8	10	0,664

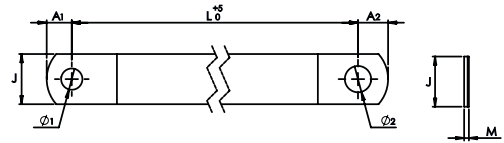


# Power Shunt (PBC, PBCR & PPS)



- High flexibility
- Reduce vibrations
- Ideal for transformer-busduct link
- Intensity: Up to 4600 A

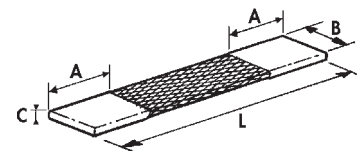
## PBCR Braided Power Shunts



- Drilled palms (ready to use)
- Weight savings - integral palm without tin addition or crimped lug
- Red electrolytic copper strand  
Ø 0,15 mm
- Extra flexible power connection and good resistance to vibration
- UL® Listed to UL 467 up to 100 mm<sup>2</sup> for grounding and bonding application
- UL® Recognized to UL 67

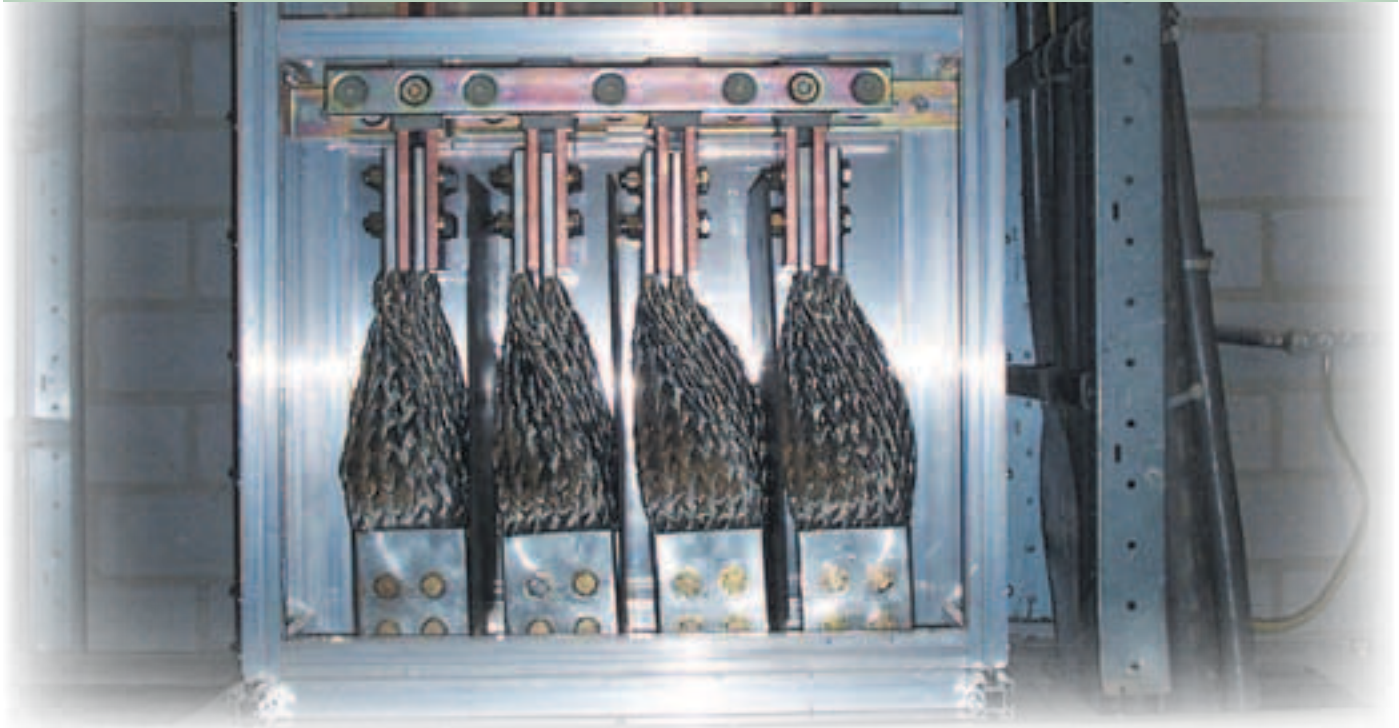
Part No.	Description	Section mm <sup>2</sup>	Intensity (ΔT 30K)		Intensity (ΔT 50K)		L mm	Ø1 mm	Ø2 mm	A1 mm	A2 mm	J mm	M mm	Kg	
			↙	↘	↙	↘									
564960	PBCR 70-230-8-10	70	226	362	291	466	230	8,5	10,5	9	11	20	4,3	2	0,17
564961	PBCR 70-330-8-10	70	226	362	291	466	330	8,5	10,5	9	11	20	4,3	2	0,24
564962	PBCR 70-430-8-10	70	226	362	291	466	430	8,5	10,5	9	11	20	4,3	2	0,30
564963	PBCR 100-230-8-10	100	298	477	385	616	230	8,5	10,5	9	11	24	5	2	0,24
564964	PBCR 100-330-8-10	100	298	477	385	616	330	8,5	10,5	9	11	24	5	2	0,34
564965	PBCR 100-430-8-10	100	298	477	385	616	430	8,5	10,5	9	11	24	5	2	0,44
564966	PBCR 120-230-10	120	363	581	468	749	230	10,5	10,5	11	11	32	4,4	2	0,29
564967	PBCR 120-330-10	120	363	581	468	749	330	10,5	10,5	11	11	32	4,4	2	0,41
564968	PBCR 120-430-10	120	363	581	468	749	430	10,5	10,5	11	11	32	4,4	2	0,53
564969	PBCR 185-330-10-12	185	416	666	537	859	330	10,5	12,5	12	14	32	7,1	2	0,64
564970	PBCR 185-430-10-12	185	416	666	537	859	430	10,5	12,5	12	14	32	7,1	2	0,82
564971	PBCR 240-330-10-12	240	556	890	718	1149	330	10,5	12,5	12	14	32	9,2	2	0,83
564972	PBCR 240-430-10-12	240	556	890	718	1149	430	10,5	12,5	12	14	32	9,2	2	1,07

## PBC Braided Power Shunts



- Undrilled palms to customer's specific designs, fitted by power press
- Extra-flexible power connections (expansion rings, busbar...)
- Tinned electrolytic copper strand Ø 0,15 mm
- When used in parallel, the 2 shunts must be spaced with a minimum distance equal to the thickness of the shunt to allow air cooling

Part No.	Description	Section mm <sup>2</sup>	Intensity (ΔT 30K)		Intensity (ΔT 50K)		A mm	B mm	C mm	L mm	Kg	
			↙	↘	↙	↘						
564000	PBC 100 x 250	100	349	600	462	795	35	40	7,0	250	2	0,38
564050	PBC 100 x 500	100	349	600	462	795	35	40	7,0	500	2	0,63
564010	PBC 120 x 250	120	385	670	511	877	35	40	7,5	250	2	0,42
564100	PBC 150 x 250	150	440	757	583	1003	55	50	8,0	250	2	0,63
564150	PBC 150 x 500	150	440	757	583	1003	55	50	8,0	500	2	0,90
564200	PBC 200 x 250	200	550	946	729	1253	55	50	9,0	250	2	0,76
564250	PBC 200 x 500	200	550	946	729	1253	55	50	9,0	500	2	1,20
564300	PBC 250 x 300	250	651	1120	863	1484	85	50	10,5	300	2	1,03
564400	PBC 300 x 400	300	716	1180	948	1565	85	60	11,0	400	1	1,53
564500	PBC 400 x 400	400	853	1360	1131	1808	85	80	11,0	400	1	2,20
564600	PBC 500 x 400	500	917	1561	1216	1944	105	100	11,0	400	1	2,64
564700	PBC 600 x 450	600	1101	1762	1459	2334	105	100	13,0	450	1	3,40
564800	PBC 800 x 450	800	1376	2202	1823	2917	105	100	15,0	450	1	4,26
564900	PBC 1000 x 450	1000	1651	2642	2188	3500	105	100	19,0	450	1	5,47
564030	PBC 1200 x 500	1200	1982	3170	2626	4208	125	120	17,5	500	1	7,16



PBC Application

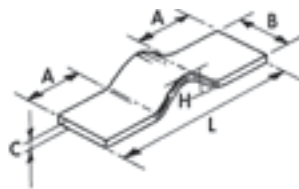
## PPS Presswelded Power Shunts

Part No.	Description	Section mm <sup>2</sup>	Intensity (ΔT 30K)		Intensity (ΔT 50K)		A mm	B mm	C mm	L mm	H mm	Kg	
			⏏	⏏	⏏	⏏							
566000	PPS 40/5/50-180	200	572	984	758	1304	50	40	5	180	45	2	0,390
566020	PPS 40/10/50-220	400	849	1460	1125	1935	50	40	10	220	58	2	0,930
566030	PPS 50/10/80-280	500	1022	1758	1354	2329	80	50	10	280	58	1	1,440
566040	PPS 80/10/100-320	800	1511	2493	2002	3303	100	80	10	320	52	1	2,625
566050	PPS 100/10/100-300	1000	1825	2920	2418	3869	100	100	10	300	54	1	3,065
566060	PPS 100/10/110-360	1000	1825	2920	2418	3869	110	100	10	360	53	1	3,610
566070	PPS 100/15/110-360	1500	2178	3485	2886	4617	110	100	15	360	57	1	5,385

Press welding is welding of laminations to each other through direct current applied to pieces under pressure.

This technique results in:

- The formation of a solid palm with properties of plain bar
- Smaller cross section for same capacity
- Runs cooler than equal section
- Plain copper, thickness of laminations 0.3 mm
- When used in parallel, the 2 shunts must be spaced with a minimum distance equal to the thickness of the shunt



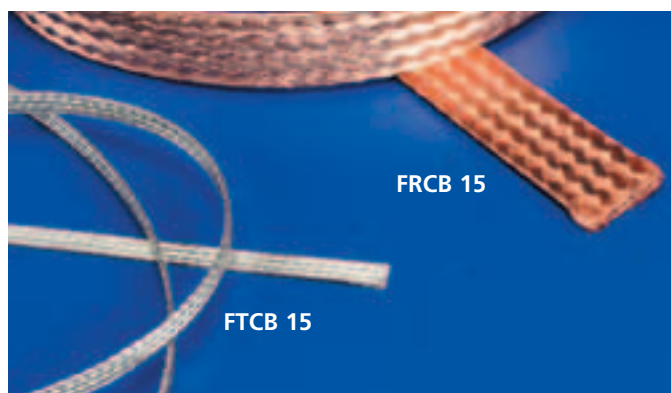
### Custom Solutions

ERICO can provide made-to-order, custom configurations to your drawing specifications.

ERIFLEX® copper braids can be made to custom lengths, widths, thicknesses and hole patterns; with PVC installation; in flat or tubular shapes; using copper wire; in continuous coils; or with soldered studs or crimped lugs. Let ERICO solve your design and production scheduling challenges.



# Flat Copper & Stainless Steel Braids (FTCB, FRCB, FSSB & FTCBI)



## FTCB 15 Flat tinned copper braids

- Standard wire diameter: 0,15 mm
- 25 m coils

Part No.	Description	Section mm <sup>2</sup>	mm	Number of Wire	Nominal Current A		Kg
557200	FTCB 15-3	3	5x1	168	30	25 m	0,03
557210	FTCB 15-5	5	8x1	288	45	25 m	0,05
557220	FTCB 15-8	8	8x1,5	456	65	25 m	0,08
557230	FTCB 15-10	10	10x1,5	576	75	25 m	0,10
557240	FTCB 15-16	16	15x1,5	896	120	25 m	0,16
557250	FTCB 15-20	20	20x1,5	1120	140	25 m	0,20
557260	FTCB 15-25	25	23x1,5	1404	150	25 m	0,25
557270	FTCB 15-30	30	23x2,0	1692	180	25 m	0,30
557280	FTCB 15-35	35	23x2,5	1980	200	25 m	0,35
557290	FTCB 15-40	40	25x2,5	2272	220	25 m	0,40
557300	FTCB 15-50	50	28x3	2848	250	25 m	0,50
557310	FTCB 15-60	60	30x3	3392	280	25 m	0,60
557320	FTCB 15-70	70	30x3,5	3968	290	25 m	0,70
557330	FTCB 15-75	75	30x4	4256	300	25 m	0,75
557350	FTCB 15-100	100	40x4	5664	360	25 m	1,00

## FRCB 15 Flat plain copper braids

- Standard wire diameter: 0,15 mm
- 25 m coils

Part No.	Description	Section mm <sup>2</sup>	mm	Number of Wire	Nominal Current A		Kg
557000	FRCB 15-3	3	5x1	168	30	25 m	0,03
557010	FRCB 15-5	5	8x1	288	45	25 m	0,05
557020	FRCB 15-8	8	8x1,5	456	65	25 m	0,08
557030	FRCB 15-10	10	10x1,5	576	75	25 m	0,10
557040	FRCB 15-16	16	15x1,5	896	120	25 m	0,16
557050	FRCB 15-20	20	20x1,5	1120	140	25 m	0,20
557060	FRCB 15-25	25	23x1,5	1404	150	25 m	0,25
557070	FRCB 15-30	30	23x2,0	1692	180	25 m	0,30
557080	FRCB 15-35	35	23x2,5	1980	200	25 m	0,35
557090	FRCB 15-40	40	25x2,5	2272	220	25 m	0,40
557100	FRCB 15-50	50	28x3	2848	250	25 m	0,50
557110	FRCB 15-60	60	30x3	3392	280	25 m	0,60
557120	FRCB 15-70	70	30x3,5	3968	290	25 m	0,70
557130	FRCB 15-75	75	30x4	4256	300	25 m	0,75
557150	FRCB 15-100	100	40x4	5664	360	25 m	1,00



## FTCBI Insulated flat tinned copper braids

- Insulation in clear PVC, thickness 1 mm, self-extinguishing UL® 94 VO
- Standard wire diameter: 0,15 mm
- 25 m coils
- Insulation voltage: 450 V
- Working temperature: up to 70°C

Part No.	Description	Section mm <sup>2</sup>	mm	Number of Wire	Nominal Current A		Kg
510300	FTCBI 16	16	17x3,5	896	120	25 m	0,18
510310	FTCBI 25	25	25x3,5	1404	150	25 m	0,29
510320	FTCBI 35	35	25x4,5	1980	200	25 m	0,40
510340	FTCBI 50	50	30x5	2848	250	25 m	0,60
Standard wire diameter 0,15 mm - Extra long reels							
503600	FTCB 15-16	16	17x3,5	896	120	100 m	0,18
503610	FTCB 15-25	25	25x3,5	1404	150	100 m	0,29
503620	FTCB 15-35	35	25x4,5	1980	200	75 m	0,40

## FTCB 20 Flat tinned copper braids

- Standard wire diameter: 0,20 mm
- Extra long reels

Part No.	Description	Section mm <sup>2</sup>	mm	Number of Wire	Nominal Current A		Kg
503500	FTCB 20-3	3	5x1	96	30	500 m	0,03
503510	FTCB 20-5	5	8x1	168	45	500 m	0,05
503520	FTCB 20-10	10	10x1,5	312	75	150 m	0,10
503530	FTCB 20-16	16	15x2	512	120	150 m	0,16
503540	FTCB 20-25	25	25x1,5	792	150	100 m	0,25

## FSSB 25 Stainless steel flat braids

- Standard wire diameter: 0,25 mm
- Stainless steel 304

Part No.	Description	Section mm <sup>2</sup>	mm		Kg
557160	FSSB 25-16 <sup>2</sup>	16	15x1,5	25 m	0,14
557170	FSSB 25-25 <sup>2</sup>	25	23x1,5	25 m	0,22
557390	FSSB 25-50 <sup>2</sup>	50	30x3	25 m	0,44



# Round & Tubular Copper Braids (RTCB, RRCB & TTCE)

- A large range of braids
- Bare or insulated

- Tubulars for shielding
- Stainless steel for corrosive environment



## RTCB / RTCB HL Tinned copper round braids



- Standard wire diameter: 0,15 mm
- 25 m coils

Part No.	Description	Section mm <sup>2</sup>	External dia in mm	Number of Wire	Nominal Current A		
557600	RTCB 15-6	6	4	352	45	25 m	0,06
557610	RTCB 15-8	85	4,5	464	65	25 m	0,08
557620	RTCB 15-10	10	5	560	75	25 m	0,10
557630	RTCB 15-16	16	6	900	120	25 m	0,16
557640	RTCB 15-25	25	8	1416	150	25 m	0,25
557650	RTCB 15-30	30	9	1680	180	25 m	0,30
557660	RTCB 15-50	50	11	2820	250	25 m	0,50
557670	RTCB 15-75	75	13,5	4236	300	25 m	0,75
557680	RTCB 15-100	100	17	5652	360	25 m	1,00
Standard wire diameter 0,15 mm - Extra long reels							
503700	RTCB 15-10/HL	10	5	560	75	100 m	0,100
503710	RTCB 15-16/HL	16	6	900	120	100 m	0,160
503720	RTCB 15-25/HL	25	7,5	1416	150	100 m	0,250
503730	RTCB 15-30/HL	30	8	1680	180	75 m	0,300

## RRCB Plain copper round braids

- Standard wire diameter: 0,15 mm
- 25 m coils

Part No.	Description	Section mm <sup>2</sup>	External dia in mm	Number of Wire	Nominal Current A		
557400	RRCB 15-6	6	4	352	45	25 m	0,06
557410	RRCB 15-8	8	4,5	464	65	25 m	0,08
557420	RRCB 15-10	10	5	560	75	25 m	0,10
557430	RRCB 15-16	16	6	900	120	25 m	0,16
557440	RRCB 15-25	25	8	1416	150	25 m	0,25
557450	RRCB 15-30	30	9	1680	180	25 m	0,30
557460	RRCB 15-50	50	11	2820	250	25 m	0,50
557470	RRCB 15-75	75	14	4236	300	25 m	0,75
557480	RRCB 15-100	100	18	5652	360	25 m	1,00



## TTCE Tinned copper tubular braids

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

Part No.	Description	Section mm <sup>2</sup>	Diameter (mm)				Number of Wire	Ø wires mm	Nominal Current A		
			Int.	Covering %	Exp.	Covering %					
510100	TTCE 3	1,7	3	100%	6	90%	96	0,15	13	50 m	0,020
510110	TTCE 5	2,5	5	99%	10	92%	144	0,15	19	50 m	0,026
510120	TTCE 8	4,45	8	99%	16	95%	252	0,15	37	50 m	0,050
510130	TTCE 10	5,7	10	100%	20	92%	320	0,15	43	50 m	0,054
510140	TTCE 15	12	15	100%	30	94%	334	0,20	90	50 m	0,120
510150	TTCE 20	20,4	20	99%	40	87%	288	0,30	122	50 m	0,190
510160	TTCE 25	27,1	25	99%	50	92%	384	0,30	163	25 m	0,270
510170	TTCE 30	33,9	30	100%	60	90%	480	0,30	185	25 m	0,320
510180	TTCE 35	40,7	35	100%	70	94%	576	0,30	244	25 m	0,380
Extra long reels											
504690	TTCE 8/HL	6,8	8	-	16	-	216	0,20	37	200 m	0,050



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.

# Round Copper Braids (RRCBI & RTCBI)



## RRCBI Insulated plain copper round braids

- Insulation in clear PVC, thickness 1 mm, self-extinguishing UL® 94 VO
- Standard wire diameter: 0,15 mm
- Insulation voltage: 450 V
- Working temperature: up to 70°C



Part No.	Description	Section mm <sup>2</sup>	External dia in mm	Number of Wire	Nominal Current A		
510500	RRCBI 15-10	10	7	560	75	25 m	0,10
510510	RRCBI 15-16	16	8	900	120	25 m	0,16

### On Request Special Manufacturing:

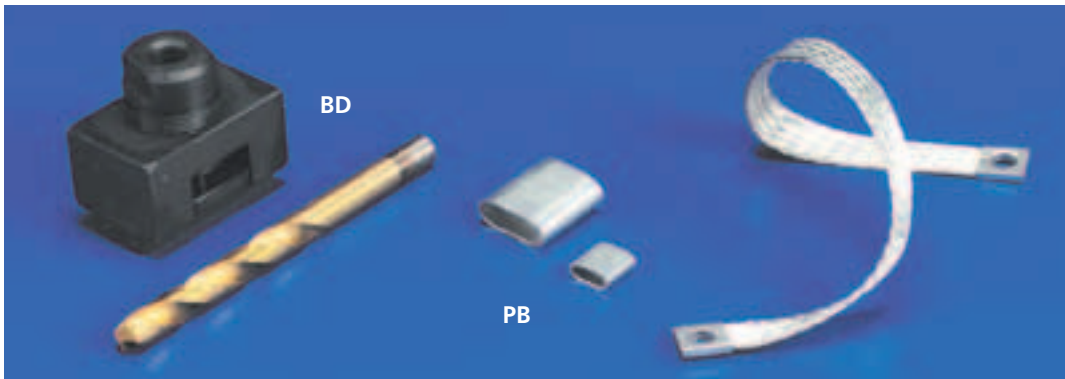
- Tubular braids up to 60 mm diameter maximum
- Flat or round copper braids up to 400 mm<sup>2</sup> maximum
- Insulation 105° C

## RTCBI / RTCBI HL Insulated round tinned copper braids

- Insulation in clear PVC, thickness 1 mm, self-extinguishing UL 94 VO
- Standard wire diameter: 0,15 mm
- 25 m coils
- Insulation voltage: 450 V
- Working temperature: up to 70°C

Part No.	Description	Section mm <sup>2</sup>	mm	Number of Wire	Nominal Current A		
503400	RTCBI 15-10	10	7	560	75	25 m	0,12
503410	RTCBI 15-16	16	8	900	120	25 m	0,18
503420	RTCBI 15-25	25	9,5	1416	150	25 m	0,25
503430	RTCBI 15-30	30	10	1680	180	25 m	0,35
503440	RTCBI 15-50	50	12,5	2820	250	25 m	0,58
Standard wire diameter 0,15 mm - Extra long reels							
503800	RTCBI 15-10HL	10	7	560	75	100 m	0,12
503810	RTCBI 15-16HL	16	8	900	120	100 m	0,18
503820	RTCBI 15-25HL	25	9,5	1416	150	100 m	0,28
503830	RTCBI 15-30HL	30	10	1680	180	75 m	0,35

# Make Your Own Braided Connections



## BD Crimp and drill tool

- This tool has been developed by ERICO specifically for crimping and drilling of braid terminals. Guide and specially adapted drill bit included.

Part No.	Description	For Flat	Ø Drill Bit	Bolt		 Kg
558610	BD 16	FTCB or FRCB 15-16	6,5	M6	1	0,653
558640	BD 16-8,5	FTCB or FRCB 15-16	8,5	M8	1	0,653
558620	BD 25	FTCB or FRCB 15-25	11	M10	1	0,678
558630	BD 50	FTCB or FRCB 15-50	12,5	M126	1	0,712

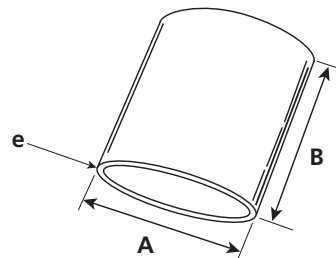
## HCT 3-4 Crimping tool for hydraulic work center

- This package allows to crimp lugs PB16, PB25 and PB50 on braids with the hydraulic ERIFLEX Puncher.

Part No.	Description		 Kg
545980	HCT 3-4	1	1,850

## PB Lugs for flat braids (FTCB or FCRB)

- In tinned annealed copper



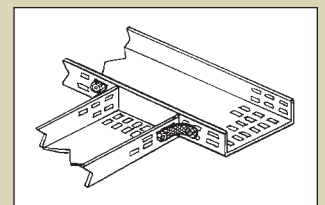
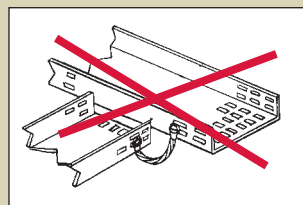
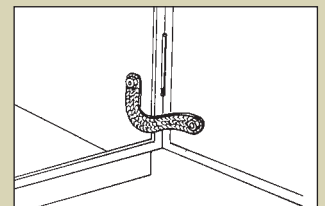
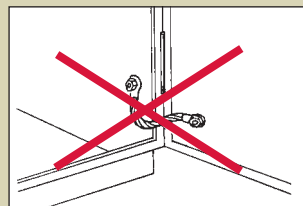
Part No.	Description	For Flat	A	B	e		 Kg
557180	PB 16	FTCB or FRCB 15-16	16	15	1	100	0,004
557190	PB 25	FTCB or FRCB 15-25	22	25	1	100	0,010
557380	PB 50	FTCB or FRCB 15-50	30	30	1	100	0,017

## ABOUT ELECTROMAGNETIC COMPATIBILITY...

In an environment where electromagnetic disturbances are more and more numerous, the ElectroMagnetic Compatibility (EMC) is increasingly important in the design and building of electrical panels.

In order to avoid stray currents, it is necessary that all the metallic framework, inside the panel or outside, is at the same electrical potential. Thus, it is essential to link all these metal parts with connections presenting a low impedance at High Frequency (H.F.).

Connections with cables are not efficient. Only short and flat conductors are. Their H.F. impedances are 10 times lower than the wire impedances.





## Made to Order Solutions (MTO)

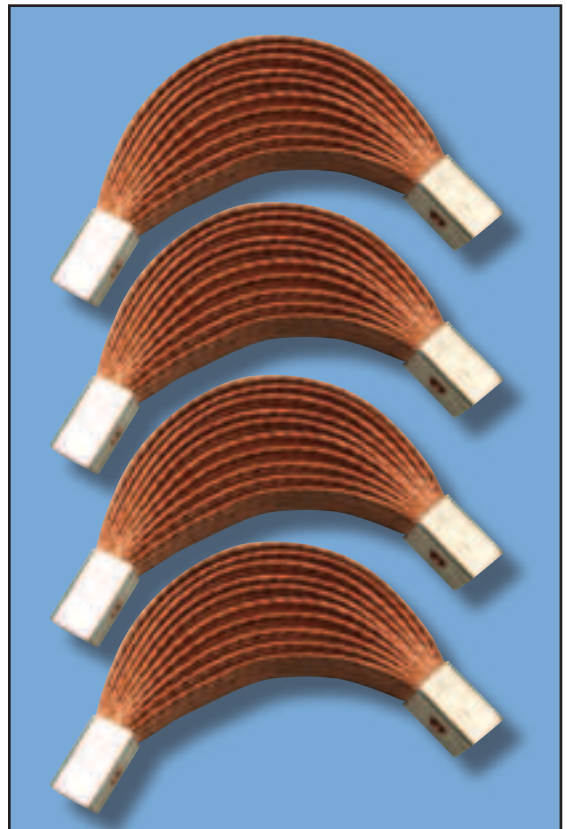
### ERIFLEX® FLEXIBAR Custom Solutions (Made to Order)

ERICO can provide preformed ERIFLEX FLEXIBAR configurations to your drawing specifications. ERIFLEX FLEXIBAR can be cut, punched, twisted or bent to address your most challenging panelboard designs and production scheduling requirements. Give ERICO your low voltage connection challenges!



### Braided Conductors Custom Solutions (Made to Order)

ERIFLEX® brand of copper braids can be made to custom lengths, widths, thicknesses and hole patterns; with PVC insulation; in flat or tubular shapes; using copper or stainless steel wire; in continuous coils; or with soldered studs or crimped lugs. Let ERICO solve your design and production scheduling challenges.





# Cross Reference List

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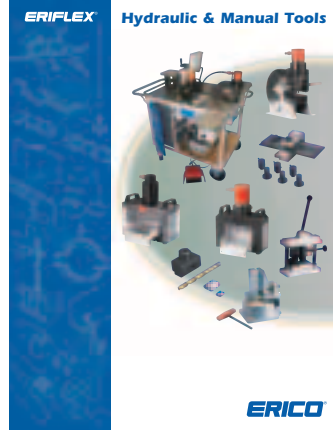
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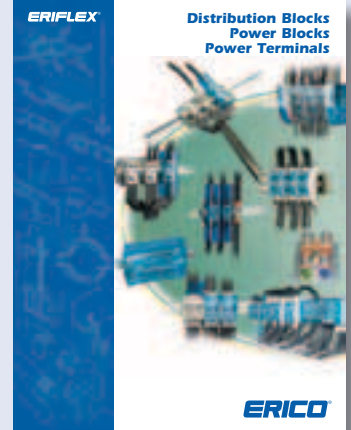
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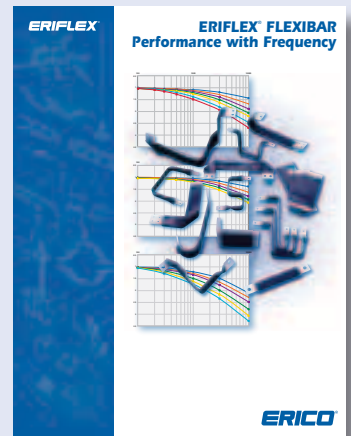
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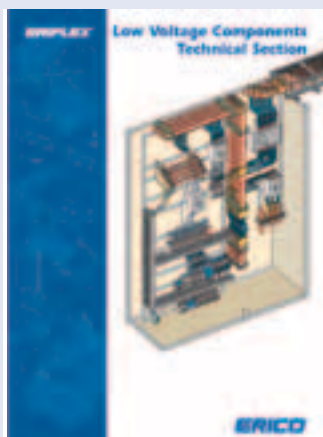
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