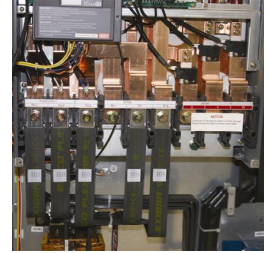
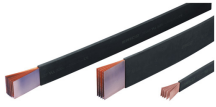
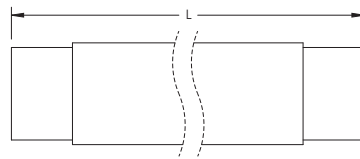
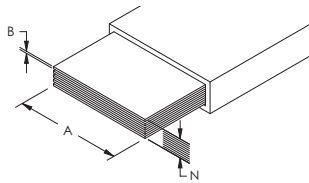


# ERIFLEX FLEXIBAR, Red Copper – FLEX2MRC6X50X1 (552790)



- Thin layers of bare electrolytic copper formed into a stack
- Full range from 19.5 mm<sup>2</sup> up to 1200 mm<sup>2</sup> and 125 A to 2800 A
- Insulated by high-resistance, self-extinguishing PVC with less than 20% contact with conductor for high flexibility
- Easily bent, folded, and twisted, improving assembly flexibility, shortening connections, and decreasing footprint
- Dramatically smaller and more flexible than comparable cable based on ampacity
- Better power density than cable with lower skin effect ratio
- Connections made by punching and bolting directly through the copper laminates, clamping onto the end of the ERIFLEX FLEXIBAR, or welding using ERICO CADWELD
- No lugs needed, reducing installation time and improving resistance to vibration
- Weight savings and material savings compared to wire alternatives
- Reduces total installation cost
- Traceability codes and designation part numbers printed on insulation
- 100% production dielectric tested
- UL 758 Appliance Wiring Material requirements for Cold Bend testing at -40°C and -50°C (-40°F and -58°F)
- GOST compliant
- RoHS compliant



|                                    |                                                       |
|------------------------------------|-------------------------------------------------------|
| Part Number                        | FLEX2MRC6X50X1                                        |
| Article Number                     | 552790                                                |
| Typical Application Current Rating | 1,000 A                                               |
| Material                           | Copper<br>Polyvinylchloride                           |
| Dielectric Strength                | 20 kV/mm                                              |
| Flammability Rating                | UL® 94V-0                                             |
| Insulation Elongation              | 370 %                                                 |
| Insulation Thickness               | 2 mm                                                  |
| Nominal Voltage, UL/IEC            | 1,000 VAC<br>1,500 VDC                                |
| Operating Temperature              | -50 to 105 °C                                         |
| Forming Temperature                | 0 – 55 °C                                             |
| Certification Details              | UL® 67<br>UL® 758                                     |
| Complies With                      | IEC® 60439.1<br>IEC® 61439.1<br>IEC® 61439.1 Class II |

|                             |                                                                                                                                                                      |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Part Number                 | FLEX2MRC6X50X1                                                                                                                                                       |
| Length (L)                  | 2 m                                                                                                                                                                  |
| $\Delta T$ 40 K             | 925 A                                                                                                                                                                |
| $\Delta T$ 50 K             | 1,035 A                                                                                                                                                              |
| $\Delta T$ 60 K             | 1,135 A                                                                                                                                                              |
| Conducting Layers (N)       | 6                                                                                                                                                                    |
| A                           | 50 mm                                                                                                                                                                |
| B                           | 1 mm                                                                                                                                                                 |
| Cross Section               | 300 mm <sup>2</sup>                                                                                                                                                  |
| 2 Bar Current Coefficient   | 1.72                                                                                                                                                                 |
| 3 Bar Current Coefficient   | 2.25                                                                                                                                                                 |
| Unit Weight                 | 6.07 kg                                                                                                                                                              |
| Certifications              | ABS 08-HS365878-2-PDA<br>Bureau Veritas 02859 BV<br>CE<br>cURus<br>EAC 0234251 (Russian Federation)<br>IEC 61439-1 Class II FLEXIBAR<br>IEC 61439-1 FLEXIBAR<br>RoHS |
| Standard Packaging Quantity | 2 pc                                                                                                                                                                 |
| UPC                         | 78285687668                                                                                                                                                          |
| EAN-13                      | 3479775527901                                                                                                                                                        |

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.

$\Delta T$  = Temperature of conductors – Internal temperature of panel.

Refer to technical documentation for additional ampacity ratings.

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#### WARNING

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