

## The Best Flexible Wire Replacement with ERIFLEX® FLEXIBAR STANDARD and ERIFLEX® FLEXIBAR SUMMUM

ERIFLEX FLEXIBAR connections are made by punching directly through the laminates. No lugs to purchase, installation is simpler and faster and faulty connection problems are eliminated.

ERIFLEX FLEXIBAR is formed with multiple layers of thin electrolytic copper, available in plain or tinplated

The insulation is a high resistance, self-extinguishing PVC or silicone compound

Easily formed, ERIFLEX FLEXIBAR improves assembly flexibility and aesthetics of panels.

Designation Part number

Traceability code

### The Highest Flexibility

ERICO's exclusive manufacturing process offers the best flexibility:

- ✦ copper laminates are free to slide within the insulation
- ✦ high insulation quality

Virtually unlimited bending and twisting possibilities.

Consistent insulation thickness over the whole surface.

### The Widest Versatile Application

- ✦ can be used under EXTREME conditions
- ✦ self extinguishable
- ✦ high mechanical resistance
- ✦ high elongation value
- ✦ halogen free insulation - with ERIFLEX FLEXIBAR SUMMUM
- ✦ low smoke
- ✦ high current withstanding
- ✦ high copper quality 99.9% purity
- ✦ high conductivity

### Applications

All types of connections on low voltage industrial power distribution and control.

- ✦ alternative to large and multiple cables
- ✦ alternative to rigid busbar
- ✦ connections between main power and distribution equipment (contactors, circuit-breakers, switches...)
- ✦ connections between a transformer and a bus-duct
- ✦ connections between a bus-duct and an electrical cabinet
- ✦ expansion joints



NEW: HALOGEN FREE ERIFLEX® FLEXIBAR SUMMUM - SEE PAGE 16

ERIFLEX®



CABLE JOINTS, CABLE TERMINATIONS, CABLE GLANDS, CABLE CLEATS  
FEEDER PILLARS, FUSE LINKS, ARC FLASH, CABLE ROLLERS, CUT-OUTS

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## ERIFLEX® FLEXIBAR Advantages

### SPACE/WEIGHT SAVINGS

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

### TIME SAVINGS

- Eliminates cost and installation of lugs
- Reduces inventory costs

### IMPROVES RELIABILITY

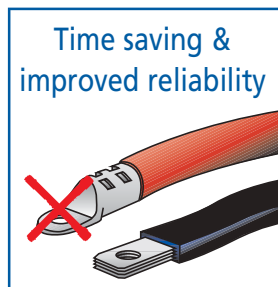
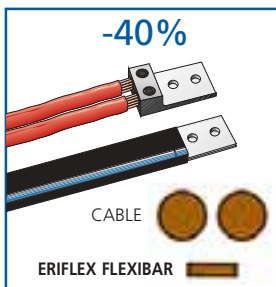
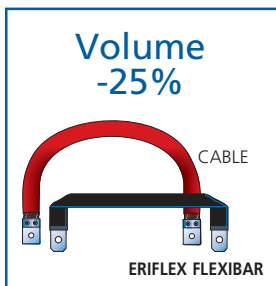
- Connection is made directly to ERIFLEX FLEXIBAR thus eliminating the cable lug connection

### AESTHETICS

- Improves design flexibility and panel access

### EASE OF INSTALLATION

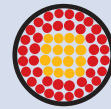
- Installation is facilitated through the ease of bending and shaping even large sizes



### ERIFLEX® FLEXIBAR A.C. Applications Only

#### COPPER CABLE

#### ERIFLEX FLEXIBAR

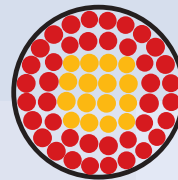


→ OR →



**150 AMPS**  
1/0  
53.5 sq. mm  
(.373 in.)

**158 AMPS**  
3 x 9 x 0.8 mm  
21.6 sq. mm  
**60% smaller**

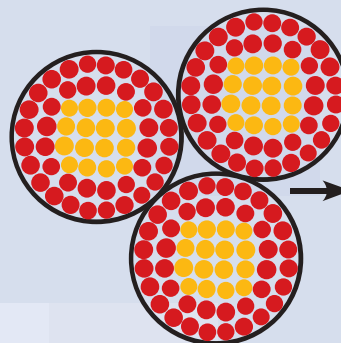
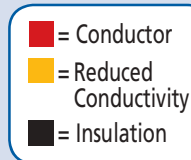


→ OR →



**380 AMPS**  
500MCM  
253 sq. mm  
(.813 in.)

**379 AMPS**  
3 x 24 x 1 mm  
72 sq. mm  
**71% smaller**



→ OR →



**1140 AMPS**  
(3) 500MCM  
759 sq. mm  
(.813 in.)

**1211 AMPS**  
4 x 80 x 1 mm  
320 sq. mm  
**58% smaller**

Representative to scale.

ERIFLEX FLEXIBAR ampacity and cable ampacity are based on (NEC Table 310-16, 75° column) conductor temperature rise of 45°C.

# How to Achieve a Good Electrical Connection

## What Size is Your Landing Point?

ERIFLEX® FLEXIBAR is available from 9 mm (0.35") wide up to 100 mm (4") wide



1" Contractor Pad



4" Bus Bar

## What is Maximum Ampacity the Conductor Will See?

A single piece of ERIFLEX FLEXIBAR can carry from 150 Amps up to 2800\* Amps

Ampacity can be increased by placing ERIFLEX FLEXIBAR in parallel

**SEE COEFFICIENT PAGE 12-13**

## What is Maximum Ambient Temperature?

Maximum device operating temperature - max ambient temperature = max temp. rise of ERIFLEX FLEXIBAR

## What Are You Connecting?

Passive Element  
Bus Bar  
Transformer

Active Element  
Circuit Breaker  
Contractor



## OVERLAP (recommended for punched bars)

Part No. Length 3 m	DESCRIPTION	OVERLAP INCHES	BOLT	
			Number	Size
505501	ERIFLEX® FLEXIBAR 3MTC 2X20X1	1	1	1/4-20
505502	ERIFLEX FLEXIBAR 3MTC 3X20X1	1	1	1/4-20
505503	ERIFLEX FLEXIBAR 3MTC 4X20X1	1	1	5/16-16
505504	ERIFLEX FLEXIBAR 3MTC 5X20X1	1	1	5/16-16
505505	ERIFLEX FLEXIBAR 3MTC 6X20X1	1.2	1	7/16-14
505506	ERIFLEX FLEXIBAR 3MTC 2X24X1	1	1	5/16-16
505507	ERIFLEX FLEXIBAR 3MTC 3X24X1	1	1	5/16-16
505508	ERIFLEX FLEXIBAR 3MTC 4X24X1	1	1	5/16-16
505509	ERIFLEX FLEXIBAR 3MTC 5X24X1	1	1	7/16-14
505510	ERIFLEX FLEXIBAR 3MTC 6X24X1	1.2	1	7/16-14
505511	ERIFLEX FLEXIBAR 3MTC 8X24X1	1.6	1	1/2-13
505512	ERIFLEX FLEXIBAR 3MTC 10X24X1	2	2	7/16-14
505513	ERIFLEX FLEXIBAR 3MTC 2X32X1	1	1	7/16-14
505514	ERIFLEX FLEXIBAR 3MTC 3X32X1	1	1	7/16-14
505515	ERIFLEX FLEXIBAR 3MTC 4X32X1	1	1	7/16-14
505516	ERIFLEX FLEXIBAR 3MTC 5X32X1	1	1	7/16-14
505517	ERIFLEX FLEXIBAR 3MTC 6X32X1	1.2	1	1/2-13
505518	ERIFLEX FLEXIBAR 3MTC 8X32X1	1.6	1	1/2-13
505519	ERIFLEX FLEXIBAR 3MTC 10X32X1	2	2	7/16-14
505520	ERIFLEX FLEXIBAR 3MTC 2X40X1	0.8	2	5/16-16
505521	ERIFLEX FLEXIBAR 3MTC 3X40X1	1	1	1/2-13
505522	ERIFLEX FLEXIBAR 3MTC 4X40X1	1	1	1/2-13
505523	ERIFLEX FLEXIBAR 3MTC 5X40X1	1.2	1	1/2-13
505524	ERIFLEX FLEXIBAR 3MTC 6X40X1	1.2	1	1/2-13
505525	ERIFLEX FLEXIBAR 3MTC 8X40X1	1.6	2	7/16-14
505526	ERIFLEX FLEXIBAR 3MTC 10X40X1	2	2	1/2-13
505551	ERIFLEX FLEXIBAR 3MTC 6X45X1	1.2	1	1/2-13
505552	ERIFLEX FLEXIBAR 3MTC 8X45X1	1.6	2	7/16-14
505527	ERIFLEX FLEXIBAR 3MTC 3X50X1	1	2	5/16-16
505528	ERIFLEX FLEXIBAR 3MTC 4X50X1	1	2	5/16-16
505529	ERIFLEX FLEXIBAR 3MTC 5X50X1	1	2	7/16-14
505530	ERIFLEX FLEXIBAR 3MTC 6X50X1	1.2	2	7/16-14
505531	ERIFLEX FLEXIBAR 3MTC 8X50X1	1.6	2	1/2-13
505532	ERIFLEX FLEXIBAR 3MTC 10X50X1	2	2	1/2-13
505533	ERIFLEX FLEXIBAR 3MTC 3X63X1	1	2	7/16-14
505534	ERIFLEX FLEXIBAR 3MTC 4X63X1	1	2	7/16-14
505535	ERIFLEX FLEXIBAR 3MTC 5X63X1	1	2	7/16-14
505536	ERIFLEX FLEXIBAR 3MTC 6X63X1	1.2	2	1/2-13
505537	ERIFLEX FLEXIBAR 3MTC 8X63X1	1.6	2	1/2-13
505538	ERIFLEX FLEXIBAR 3MTC 10X63X1	2	3	1/2-13
505539	ERIFLEX FLEXIBAR 3MTC 3X80X1	1	3	5/16-16
505540	ERIFLEX FLEXIBAR 3MTC 4X80X1	1	3	5/16-16
505541	ERIFLEX FLEXIBAR 3MTC 5X80X1	1	3	7/16-14
505542	ERIFLEX FLEXIBAR 3MTC 6X80X1	1.2	3	7/16-14
505543	ERIFLEX FLEXIBAR 3MTC 8X80X1	1.6	3	1/2-13
505544	ERIFLEX FLEXIBAR 3MTC 10X80X1	2	3	1/2-13
505547	ERIFLEX FLEXIBAR 3MTC 6X100X1	1.2	4	7/16-14
505548	ERIFLEX FLEXIBAR 3MTC 8X100X1	1.6	4	1/2-13
505549	ERIFLEX FLEXIBAR 3MTC 10X100X1	2	4	1/2-13
505550	ERIFLEX FLEXIBAR 3MTC 12X100X1	2.4	5	1/2-13

\* at 60° C

# How to Achieve a Good Electrical Connection

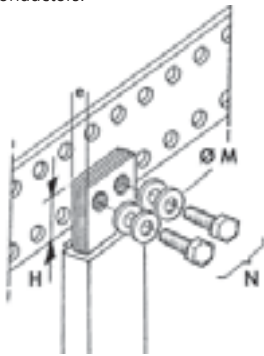
## THE QUALITY OF AN ELECTRICAL CONTACT IS DETERMINED BY:

### 1. CONTACT SURFACE CONDITIONS

The surface has to be flat but not polished. Another important point: cleaning the surfaces before connection. They must be oxide and grease free.

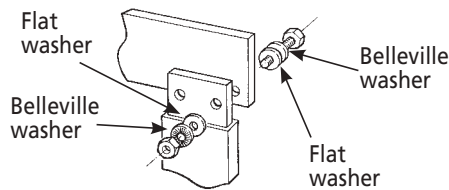
### 2. CONTACT SURFACE(S) - OVERLAP

The overlap (H) should be not less than 5 times the thickness (e) of the thinnest of the conductors.



### 3. CLAMPING TORQUE CALCULATION

With a class coated bichromated bolt (SAE Grade 5), using "Belleville and Flat" washers tightened with a torque wrench, without lubrication.



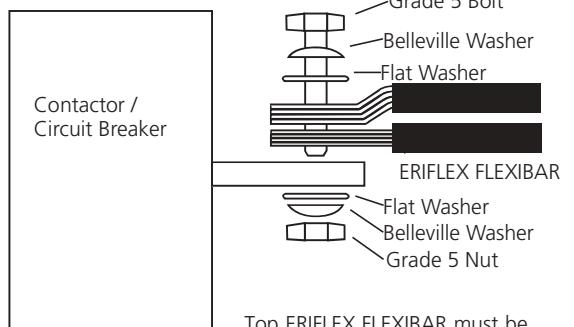
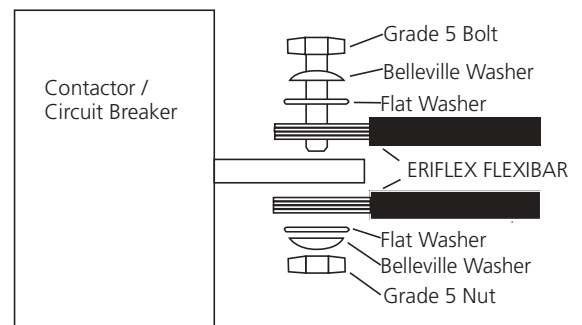
Bolt size	1/4"-20	5/16"-18	3/8"-16	7/16"-14	1/2"-13	9/16"-12	5/8"-11
Torque (foot-pounds)	9	18	31	50	75	110	150
<b>Alt - Metric</b>							
Bolt size	M6	M8		M10	M12	M14	M16
Torque (newton-meters)	13	30		60	110	174	274

SAE Grade 5 hardware can be used except where otherwise designated by the designer of the pieces installed

Belleville and Flat washers to provide resistance to vibration

Slotted holes are acceptable in applications where additional forming is anticipated during installation

## TWO WAYS TO CONNECT IN PARALLEL:



Top ERIFLEX FLEXIBAR must be stripped and bent to insure good contact area

Install with Grade 5 or better hardware and torque

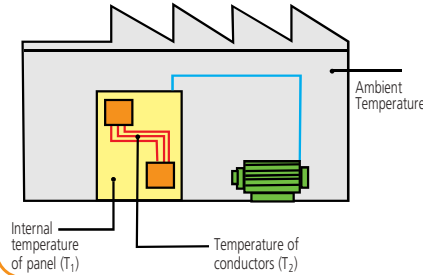
# ERIFLEX® FLEXIBAR Selection



Electrolytic copper conductor  
High resistance vinyl compound insulation:

- Elongation: 370%
- Max. working temperature: 105°C
- Min. 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



$$\text{Temperature rise of conductor} = T_2 - T_1 = \Delta T (^\circ\text{C})$$

Ex.: For a current of 650A, with

$T_1 = 45^\circ\text{C} - T_2 = 90^\circ\text{C}$

•  $\Delta T = 90 - 45 = 45^\circ\text{K}$

In the 45°C column, find the closest current value to 650A.  
ERIFLEX FLEXIBAR 8 x 24 x 1 - 505511 - 192 mm<sup>2</sup> - 663 Amps

Select ERIFLEX FLEXIBAR according to the terminal width of the equipment being connected.

### < 400 Amps @ Delta T = 45 C

Part Number	Length	Composition			UL-rated Ampacity Temp. Rise of			Description	Current Coefficient	
		N	A mm	B mm	30°C	45°C	60°C		2 in Parallel	3 in Parallel
505051	2	3	9	0.8	126	158	185	ERIFLEX FLEXIBAR 2MTC 3 x 9 x 0.8	1.72	2.25
505053	2	3	13	0.5	128	160	187	ERIFLEX FLEXIBAR 2MTC 3 x 13 x 0.5	1.72	2.25
505059	2	2	15.5	0.8	152	190	222	ERIFLEX FLEXIBAR 2MTC 2 x 15.5 x 0.8	1.72	2.25
505054	2	6	13	0.5	188	235	275	ERIFLEX FLEXIBAR 2MTC 6 x 13 x 0.5	1.72	2.25
505052	2	6	9	0.8	192	241	281	ERIFLEX FLEXIBAR 2MTC 6 x 9 x 0.8	1.72	2.25
505501	3	2	20	1	211	263	307	ERIFLEX FLEXIBAR 3MTC 2 x 20 x 1	1.72	2.25
505055	2	4	15.5	0.8	223	279	326	ERIFLEX FLEXIBAR 2MTC 4 x 15.5 x 0.8	1.72	2.25
505506	3	2	24	1	244	305	357	ERIFLEX FLEXIBAR 3MTC 2 x 24 x 1	1.72	2.25
505502	3	3	20	1	263	328	383	ERIFLEX FLEXIBAR 3MTC 3 x 20 x 1	1.72	2.25
505056	2	6	15.5	0.8	282	353	412	ERIFLEX FLEXIBAR 2MTC 6 x 15.5 x 0.8	1.72	2.25
505507	3	3	24	1	304	379	443	ERIFLEX FLEXIBAR 3MTC 3 x 24 x 1	1.72	2.25
505503	3	4	20	1	308	385	450	ERIFLEX FLEXIBAR 3MTC 4 x 20 x 1	1.72	2.25
505513	3	2	32	1	311	388	454	ERIFLEX FLEXIBAR 3MTC 2 x 32 x 1	1.72	2.25

### 400 < Ampacity < 800 A @ Delta T = 45 C

Part Number	Length	Composition			UL-rated Ampacity Temp. Rise of			Description	Current Coefficient	
		N	A mm	B mm	30°C	45°C	60°C		2 in Parallel	3 in Parallel
505504	3	5	20	1	351	438	512	ERIFLEX FLEXIBAR 3MTC 5 x 20 x 1	1.72	2.25
505508	3	4	24	1	356	445	520	ERIFLEX FLEXIBAR 3MTC 4 x 24 x 1	1.72	2.25
505520	3	2	40	1	376	470	549	ERIFLEX FLEXIBAR 3MTC 2 x 40 x 1	1.72	2.25
505514	3	3	32	1	385	481	562	ERIFLEX FLEXIBAR 3MTC 3 x 32 x 1	1.72	2.25
505505	3	6	20	1	390	487	569	ERIFLEX FLEXIBAR 3MTC 6 x 20 x 1	1.72	2.25
505509	3	5	24	1	403	504	589	ERIFLEX FLEXIBAR 3MTC 5 x 24 x 1	1.72	2.25
505510	3	6	24	1	448	559	653	ERIFLEX FLEXIBAR 3MTC 6 x 24 x 1	1.72	2.25
505515	3	4	32	1	449	561	665	ERIFLEX FLEXIBAR 3MTC 4 x 32 x 1	1.72	2.25
505521	3	3	40	1	464	580	677	ERIFLEX FLEXIBAR 3MTC 3 x 40 x 1	1.72	2.25
505516	3	5	32	1	507	633	740	ERIFLEX FLEXIBAR 3MTC 5 x 32 x 1	1.72	2.25
505511	3	8	24	1	531	663	775	ERIFLEX FLEXIBAR 3MTC 8 x 24 x 1	1.72	2.25
505522	3	4	40	1	541	675	789	ERIFLEX FLEXIBAR 3MTC 4 x 40 x 1	1.72	2.25
505517	3	6	32	1	561	701	819	ERIFLEX FLEXIBAR 3MTC 3 x 32 x 1	1.72	2.25
505527	3	3	50	1	562	702	820	ERIFLEX FLEXIBAR 3MTC 3 x 50 x 1	1.72	2.25
505512	3	10	24	1	606	757	885	ERIFLEX FLEXIBAR 3MTC 10 x 24 x 1	1.72	2.25
505523	3	5	40	1	608	759	887	ERIFLEX FLEXIBAR 3MTC 5 x 40 x 1	1.72	2.25

SEE APPROVALS ON PAGE 14

# ERIFLEX® FLEXIBAR Selection

800 < Ampacity < 1200 A @ Delta T = 45 C

Part Number	Length	Composition			UL-rated Ampacity Temp. Rise of			Description	Current Coefficient	
		N	A mm	B mm	30°C	45°C	60°C		2 in Parallel	3 in Parallel
505528	3	4	50	1	651	813	950	ERIFLEX FLEXIBAR 3MTC 4 x 50 x 1	1.72	2.25
505518	3	8	32	1	657	821	959	ERIFLEX FLEXIBAR 3MTC 8 x 32 x 1	1.72	2.25
505524	3	6	40	1	669	835	976	ERIFLEX FLEXIBAR 3MTC 6 x 40 x 1	1.72	2.25
505533	3	3	63	1	687	857	1002	ERIFLEX FLEXIBAR 3MTC 3 x 63 x 1	1.65	2.12
505529	3	5	50	1	730	911	1065	ERIFLEX FLEXIBAR 3MTC 5 x 50 x 1	1.72	2.25
505551	3	6	45	1	736	919	1074	ERIFLEX FLEXIBAR 3MTC 6 x 45 x 1	1.72	2.25
505519	3	10	32	1	745	931	1088	ERIFLEX FLEXIBAR 3MTC 10 x 32 x 1	1.72	2.25
505525	3	8	40	1	786	981	1146	ERIFLEX FLEXIBAR 3MTC 8 x 40 x 1	1.72	2.25
505534	3	4	63	1	792	988	1155	ERIFLEX FLEXIBAR 3MTC 4 x 63 x 1	1.65	2.12
505530	3	6	50	1	802	1002	1171	ERIFLEX FLEXIBAR 3MTC 6 x 50 x 1	1.72	2.25
505539	3	3	80	1	844	1053	1231	ERIFLEX FLEXIBAR 3MTC 3 x 80 x 1	1.65	2.12
505552	3	8	45	1	853	1065	1245	ERIFLEX FLEXIBAR 3MTC 8 x 45 x 1	1.72	2.25
505526	3	10	40	1	879	1097	1282	ERIFLEX FLEXIBAR 3MTC 10 x 40 x 1	1.72	2.25
505535	3	5	63	1	883	1102	1288	ERIFLEX FLEXIBAR 3MTC 5 x 63 x 1	1.65	2.12
505531	3	8	50	1	927	1157	1352	ERIFLEX FLEXIBAR 3MTC 8 x 50 x 1	1.72	2.25

1200 < Ampacity < 1600 A @ Delta T = 45 C

Part Number	Length	Composition			UL-rated Ampacity Temp. Rise of			Description	Current Coefficient	
		N	A mm	B mm	30°C	45°C	60°C		2 in Parallel	3 in Parallel
505536	3	6	63	1	966	1205	1408	ERIFLEX FLEXIBAR 3MTC 6 x 63 x 1	1.65	2.12
505540	3	4	80	1	970	1211	1415	ERIFLEX FLEXIBAR 3MTC 4 x 80 x 1	1.65	2.12
505532	3	10	50	1	1040	1298	1517	ERIFLEX FLEXIBAR 3MTC 10 x 50 x 1	1.72	2.25
505541	3	5	80	1	1077	1344	1570	ERIFLEX FLEXIBAR 3MTC 5 x 80 x 1	1.65	2.12
505537	3	8	63	1	1108	1383	1616	ERIFLEX FLEXIBAR 3MTC 8 x 63 x 1	1.65	2.12
505045	2	4	100	1	1172	1462	1708	ERIFLEX FLEXIBAR 2MTC 4 x 100 x 1	1.60	2.02
505542	3	6	80	1	1172	1463	1709	ERIFLEX FLEXIBAR 3MTC 6 x 80 x 1	1.65	2.12
505538	3	10	63	1	1232	1538	1797	ERIFLEX FLEXIBAR 3MTC 10 x 63 x 1	1.65	2.12

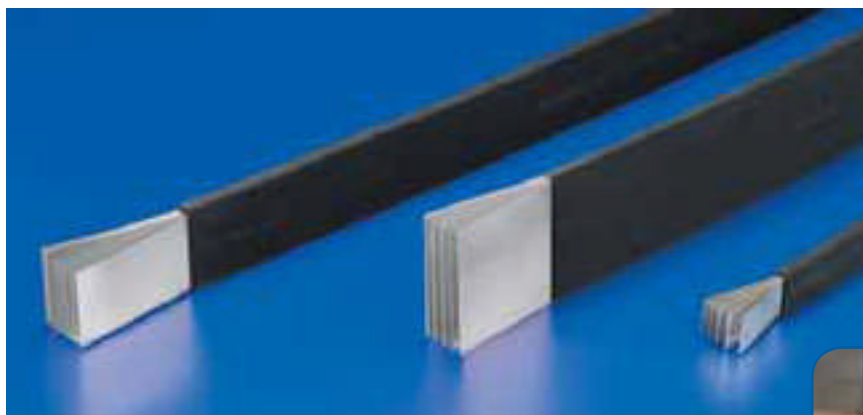
1600 < Ampacity < 2000 A @ Delta T = 45 C

Part Number	Length	Composition			UL-rated Ampacity Temp. Rise of			Description	Current Coefficient	
		N	A mm	B mm	30°C	45°C	60°C		2 in Parallel	3 in Parallel
505046	2	5	100	1	1301	1624	1898	ERIFLEX FLEXIBAR 2MTC 5 x 100 x 1	1.60	2.02
505543	3	8	80	1	1341	1674	1956	ERIFLEX FLEXIBAR 3MTC 8 x 80 x 1	1.65	2.12
505547	3	6	100	1	1414	1765	2062	ERIFLEX FLEXIBAR 3MTC 6 x 100 x 1	1.60	2.02
505544	3	10	80	1	1484	1851	2164	ERIFLEX FLEXIBAR 3MTC 10 x 80 x 1	1.65	2.12

2000 < Ampacity @ Delta T = 45 C

Part Number	Length	Composition			UL-rated Ampacity Temp. Rise of			Description	Current Coefficient	
		N	A mm	B mm	30°C	45°C	60°C		2 in Parallel	3 in Parallel
505548	3	8	100	1	1598	1994	2330	ERIFLEX FLEXIBAR 3MTC 8 x 100 x 1	1.60	2.02
505549	3	10	100	1	1765	2203	2574	ERIFLEX FLEXIBAR 3MTC 10 x 100 x 1	1.60	2.02
505550	3	12	100	1	1920	2396	2800	ERIFLEX FLEXIBAR 3MTC 12 x 100 x 1	1.60	2.02

# ERIFLEX® FLEXIBAR By Part Number



Safe  
Reliable  
Time saving  
Aesthetically pleasing  
Offering space and weight savings



## WHAT IS THE VOLTAGE RATING FOR ERIFLEX® FLEXIBAR?

Maximum Continuous Voltage: 1000 VAC and 1500 VDC.


ERIFLEX® FLEXIBAR is UL® recognized for 600 VAC maximum. E125470 / UL67 and E316390 / UL758.

ERIFLEX® FLEXIBAR is CSA® certified for a maximum of 1000 VAC. LL90005

ERIFLEX® FLEXIBAR is ABS approved for 1000 VAC and 1500 VDC. Certificate: 08-HS365878-DUP



## ERIFLEX® FLEXIBAR 2 M TINNED COPPER

Length 2 meters

Part No. Length 2 m	DESCRIPTION	
505051	ERIFLEX FLEXIBAR 2MTC 3X9X0.8	0.95
505052	ERIFLEX FLEXIBAR 2MTC 6X9X0.8	1.79
505053	ERIFLEX FLEXIBAR 2MTC 3X13X0.5	1.00
505054	ERIFLEX FLEXIBAR 2MTC 6X13X0.5	1.74
505055	ERIFLEX FLEXIBAR 2MTC 4X15.5X0.8	2.25
505056	ERIFLEX FLEXIBAR 2MTC 6X15.5X0.8	3.31
505059	ERIFLEX FLEXIBAR 2MTC 2X15.5X0.8	1.12
505045	ERIFLEX FLEXIBAR 2MTC 4X100X1	18.54
505046	ERIFLEX FLEXIBAR 2MTC 5X100X1	22.49

## ERIFLEX® FLEXIBAR 3 M TINNED COPPER

Length 3 meters

Part No. Length 3 m	DESCRIPTION		Part No. Length 3 m	DESCRIPTION	
505501	ERIFLEX FLEXIBAR 3MTC 2X20X	13.47	505551	ERIFLEX FLEXIBAR 3MTC 6X45X1	18.15
505502	ERIFLEX FLEXIBAR 3MTC 3X20X1	4.92	505552	ERIFLEX FLEXIBAR 3MTC 8X45X1	23.52
505503	ERIFLEX FLEXIBAR 3MTC 4X20X1	5.88	505527	ERIFLEX FLEXIBAR 3MTC 3X50X1	11.13
505504	ERIFLEX FLEXIBAR 3MTC 5X20X1	7.11	505528	ERIFLEX FLEXIBAR 3MTC 4X50X1	14.11
505505	ERIFLEX FLEXIBAR 3MTC 6X20X1	8.33	505529	ERIFLEX FLEXIBAR 3MTC 5X50X1	17.09
505506	ERIFLEX FLEXIBAR 3MTC 2X24X1	4.1	505530	ERIFLEX FLEXIBAR 3MTC 6X50X1	20.08
505507	ERIFLEX FLEXIBAR 3MTC 3X24X1	5.56	505531	ERIFLEX FLEXIBAR 3MTC 10X50X1	26.04
505508	ERIFLEX FLEXIBAR 3MTC 4X24X1	6.99	505532	ERIFLEX FLEXIBAR 3MTC 10X50X1	32.01
505509	ERIFLEX FLEXIBAR 3MTC 5X24X1	8.44	505533	ERIFLEX FLEXIBAR 3MTC 3X63X1	15.04
505510	ERIFLEX FLEXIBAR 3MTC 6X24X1	9.9	505534	ERIFLEX FLEXIBAR 3MTC 4X63X1	17.68
505511	ERIFLEX FLEXIBAR 3MTC 8X24X1	12.81	505535	ERIFLEX FLEXIBAR 3MTC 5X63X1	21.43
505512	ERIFLEX FLEXIBAR 3MTC 10X24X1	15.7	505536	ERIFLEX FLEXIBAR 3MTC 6X63X1	25.18
505513	ERIFLEX FLEXIBAR 3MTC 2X32X1	5.34	505537	ERIFLEX FLEXIBAR 3MTC 8X63X1	32.65
505514	ERIFLEX FLEXIBAR 3MTC 3X32X1	7.28	505538	ERIFLEX FLEXIBAR 3MTC 10X63X1	40.15
505515	ERIFLEX FLEXIBAR 3MTC 4X32X1	9.19	505539	ERIFLEX FLEXIBAR 3MTC 3X80X1	17.57
505516	ERIFLEX FLEXIBAR 3MTC 5X32X1	11.11	505540	ERIFLEX FLEXIBAR 3MTC 4X80X1	22.33
505517	ERIFLEX FLEXIBAR 3MTC 6X32X1	13.03	505541	ERIFLEX FLEXIBAR 3MTC 5X80X1	27.07
505518	ERIFLEX FLEXIBAR 3MTC 8X32X1	16.87	505542	ERIFLEX FLEXIBAR 3MTC 6X80X1	31.81
505519	ERIFLEX FLEXIBAR 3MTC 10X32X1	20.72	505543	ERIFLEX FLEXIBAR 3MTC 8X80X1	41.31
505520	ERIFLEX FLEXIBAR 3MTC 2X40X1	6.59	505544	ERIFLEX FLEXIBAR 3MTC 10X80X1	50.82
505521	ERIFLEX FLEXIBAR 3MTC 3X40X1	8.99	505547	ERIFLEX FLEXIBAR 3MTC 6X100X1	39.65
505522	ERIFLEX FLEXIBAR 3MTC 4X40X1	11.38	505548	ERIFLEX FLEXIBAR 3MTC 8X100X1	51.5
505523	ERIFLEX FLEXIBAR 3MTC 5X40X1	13.78	505549	ERIFLEX FLEXIBAR 3MTC 10X100X1	63.36
505524	ERIFLEX FLEXIBAR 3MTC 6X40X1	16.16	505550	ERIFLEX FLEXIBAR 3MTC 12X100X1	75.2
505525	ERIFLEX FLEXIBAR 3MTC 8X40X1	20.94			
505526	ERIFLEX FLEXIBAR 3MTC 10X40X1	25.73			

### AGENCY APPROVALS

#### Underwriters Laboratories

UL® Recognized, File No. E125470 & E316390

#### Canadian Standards Association

CSA® Certified, File No. LL 90005

#### American Bureau of Shipping

Certificate No. 08-HS365878-DUP

Marine & Offshore Applications

#### International Electrotechnical Association

Meets all requirements of IEC® 439-1

#### CETE APAVE Lyonnaise

Attestation of Conformity No. AF 5 A-MS 94 001

#### CE Conformity

#### Veritas Certified

No. 02859/DOBV. Ship application

#### GOST Certificate Compliance

POCC FR.AI064.H01667

# ERIFLEX® FLEXIBAR

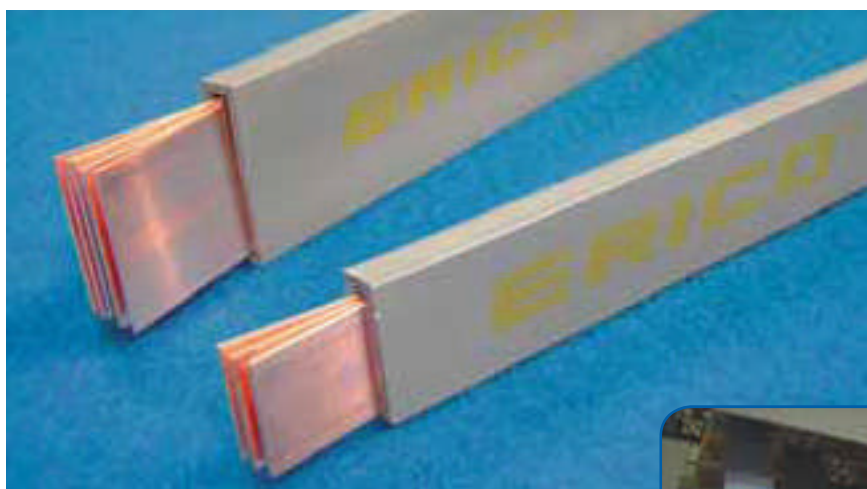
## UL® Maximum Ampacity

ERIFLEX® FLEXIBAR COMPOSITION			@ 20°C	NEC 310-16 60°C @ 30°C	@ 35°C	@ 40°C	NEC 310-16 75°C @ 45°C	@ 50°C	NEC 310-16 90°C @ 60°C	@ 65°C	@ 70°C
3	9	0.8	101	<b>126</b>	138	148	<b>158</b>	167	<b>185</b>	193	201
3	13	0.5	102	<b>128</b>	139	150	<b>160</b>	169	<b>187</b>	195	203
8	6	0.5	105	<b>131</b>	143	154	<b>164</b>	174	<b>192</b>	200	208
2	15.5	0.8	121	<b>152</b>	166	178	<b>190</b>	201	<b>222</b>	232	241
6	13	0.5	150	<b>188</b>	205	221	<b>235</b>	249	<b>275</b>	287	299
6	9	0.8	153	<b>192</b>	210	226	<b>241</b>	255	<b>281</b>	293	305
2	20	1	168	<b>211</b>	229	247	<b>263</b>	279	<b>307</b>	321	334
4	15.5	0.8	178	<b>223</b>	243	262	<b>279</b>	295	<b>326</b>	340	354
2	24	1	195	<b>244</b>	266	286	<b>305</b>	323	<b>357</b>	373	388
9	9	0.8	200	<b>251</b>	273	294	<b>314</b>	332	<b>366</b>	383	398
3	20	1	210	<b>263</b>	286	308	<b>328</b>	347	<b>383</b>	400	416
6	15.5	0.8	225	<b>282</b>	308	331	<b>353</b>	374	<b>412</b>	430	448
3	24	1	243	<b>304</b>	331	356	<b>379</b>	402	<b>443</b>	463	482
4	20	1	246	<b>308</b>	336	361	<b>385</b>	408	<b>450</b>	470	489
2	32	1	248	<b>311</b>	338	364	<b>388</b>	411	<b>454</b>	474	493
5	20	1	280	<b>351</b>	382	411	<b>438</b>	464	<b>512</b>	535	556
4	24	1	285	<b>356</b>	388	418	<b>445</b>	472	<b>520</b>	543	565
2	40	1	301	<b>376</b>	409	440	<b>470</b>	497	<b>549</b>	573	596
3	32	1	308	<b>385</b>	419	451	<b>481</b>	510	<b>562</b>	587	611
10	15.5	0.8	309	<b>387</b>	421	453	<b>483</b>	512	<b>565</b>	589	613
6	20	1	311	<b>390</b>	424	457	<b>487</b>	516	<b>569</b>	594	618
5	24	1	322	<b>403</b>	439	472	<b>504</b>	534	<b>589</b>	615	640
6	24	1	357	<b>448</b>	487	524	<b>559</b>	592	<b>653</b>	682	710
4	32	1	359	<b>449</b>	489	526	<b>561</b>	594	<b>655</b>	684	712
3	40	1	371	<b>464</b>	505	544	<b>580</b>	614	<b>677</b>	707	736
5	32	1	405	<b>507</b>	552	594	<b>633</b>	671	<b>740</b>	773	804
8	24	1	424	<b>531</b>	578	622	<b>663</b>	702	<b>775</b>	809	841
4	40	1	432	<b>541</b>	589	633	<b>675</b>	715	<b>789</b>	824	857
6	32	1	448	<b>561</b>	611	657	<b>701</b>	742	<b>819</b>	855	889
3	50	1	449	<b>562</b>	612	658	<b>702</b>	743	<b>820</b>	856	891
10	24	1	484	<b>606</b>	660	710	<b>757</b>	802	<b>885</b>	924	961
5	40	1	486	<b>608</b>	662	712	<b>759</b>	804	<b>887</b>	926	964
4	50	1	521	<b>651</b>	709	763	<b>813</b>	861	<b>950</b>	992	1032
8	32	1	525	<b>657</b>	715	770	<b>821</b>	869	<b>959</b>	1001	1042
6	40	1	535	<b>669</b>	728	784	<b>835</b>	885	<b>976</b>	1019	1061
3	63	1	549	<b>687</b>	747	804	<b>857</b>	907	<b>1002</b>	1046	1088
5	50	1	583	<b>730</b>	794	855	<b>911</b>	965	<b>1065</b>	1112	1157
6	45	1	588	<b>736</b>	801	862	<b>919</b>	973	<b>1074</b>	1121	1167
10	32	1	595	<b>745</b>	811	873	<b>931</b>	986	<b>1088</b>	1136	1182
8	40	1	628	<b>786</b>	855	920	<b>981</b>	1039	<b>1146</b>	1197	1246
4	63	1	633	<b>792</b>	861	927	<b>988</b>	1046	<b>1155</b>	1205	1255
6	50	1	641	<b>802</b>	873	940	<b>1002</b>	1061	<b>1171</b>	1222	1272
3	80	1	675	<b>844</b>	918	988	<b>1053</b>	1115	<b>1231</b>	1285	1337
8	45	1	682	<b>853</b>	929	999	<b>1065</b>	1128	<b>1245</b>	1300	1353
10	40	1	702	<b>879</b>	956	1029	<b>1097</b>	1162	<b>1282</b>	1338	1393
5	63	1	706	<b>883</b>	961	1033	<b>1102</b>	1167	<b>1288</b>	1344	1399
8	50	1	741	<b>927</b>	1009	1085	<b>1157</b>	1226	<b>1352</b>	1412	1469
6	63	1	772	<b>966</b>	1051	1130	<b>1205</b>	1276	<b>1408</b>	1470	1530
4	80	1	776	<b>970</b>	1056	1136	<b>1211</b>	1282	<b>1415</b>	1477	1538
10	50	1	831	<b>1040</b>	1132	1217	<b>1298</b>	1375	<b>1517</b>	1584	1648
5	80	1	861	<b>1077</b>	1172	1260	<b>1344</b>	1423	<b>1570</b>	1640	1706
8	63	1	886	<b>1108</b>	1205	1297	<b>1383</b>	1464	<b>1616</b>	1687	1756
6	80	1	938	<b>1172</b>	1275	1372	<b>1463</b>	1549	<b>1709</b>	1785	1858
4	100	1	937	<b>1172</b>	1275	1371	<b>1462</b>	1548	<b>1708</b>	1784	1856
10	63	1	985	<b>1232</b>	1341	1442	<b>1538</b>	1628	<b>1797</b>	1876	1953
5	100	1	1041	<b>1301</b>	1416	1523	<b>1624</b>	1719	<b>1898</b>	1982	2062
8	80	1	1073	<b>1341</b>	1460	1570	<b>1674</b>	1773	<b>1956</b>	2043	2126
6	100	1	1132	<b>1414</b>	1539	1655	<b>1765</b>	1869	<b>2062</b>	2153	2241
10	80	1	1187	<b>1484</b>	1614	1736	<b>1851</b>	1960	<b>2164</b>	2259	2351
8	100	1	1279	<b>1598</b>	1739	1870	<b>1994</b>	2111	<b>2330</b>	2433	2532
10	100	1	1413	<b>1765</b>	1921	2066	<b>2203</b>	2332	<b>2574</b>	2688	2797
12	100	1	1537	<b>1920</b>	2089	2247	<b>2396</b>	2537	<b>2800</b>	2924	3043

Size	Temperature Rating of Copper Conductor		
	60° C (140° F) Types: TW, UF	75° C (167° F) Types: FEPW, RH, RHW, THHW, THW, THWN, XHHW, USE, ZW	90° C (194° F) Types: TA, TBS, SA SIS, FEP, FEPB, MI RHH, RHW-2, THHN, THHW, THW-2, THWN-2, USE-2, XHH, XHHW XHHW-2, ZW-2
1/0	125	150	170
2/0	145	175	195
3/0	165	200	225
4/0	195	230	260
250	215	255	290
300	240	285	320
350	260	310	350
400	280	335	380
500	320	380	430
600	355	420	475
700	385	460	520
750	400	475	535
800	410	490	555
900	435	520	585
1000	455	545	615
1250	495	590	665
1500	520	625	705
1750	545	650	735
2000	560	665	750

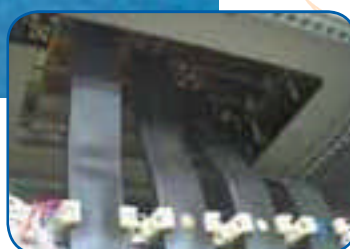
# Halogen Free ERIFLEX® FLEXIBAR

## ERIFLEX® FLEXIBAR SUMMUM 2 m



Products on this page are world wide and are not UL® Recognized

Halogen Free  
Environmental Awareness  
High Current Density  
High Ambient Temperature  
High Flexibility  
High Insulation Value



### ERIFLEX FLEXIBAR SUMMUM 2 m

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

**ON REQUEST: SILVERED OR TINNED  
ERIFLEX FLEXIBAR SUMMUM**

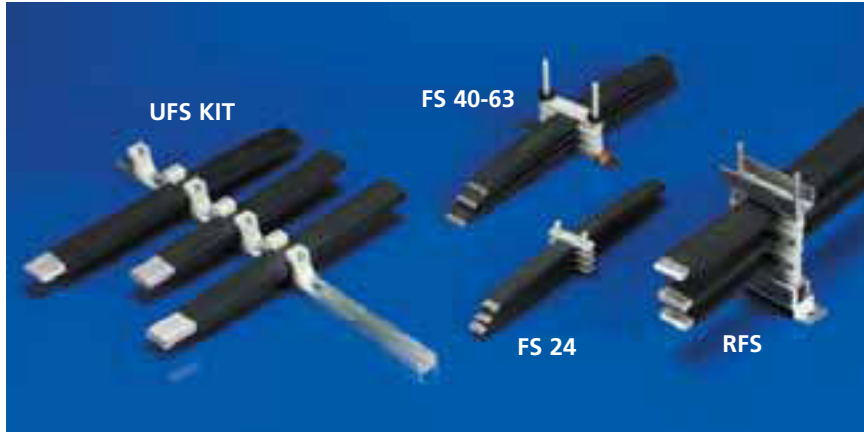
Part No.	DESCRIPTION	Box	Person	Section mm²	IEC Ampacity ΔT (°K)					Current Coefficient	
					70	60	50	40	30	1	2
566490	ERIFLEX FLEXIBAR SUMMUM 2M 2X20X1	5	1.05	40	326	300	275	246	214	1.72	2.25
566500	ERIFLEX FLEXIBAR SUMMUM 2M 3X20X1	5	1.42	60	428	395	360	323	280	1.72	2.25
566510	ERIFLEX FLEXIBAR SUMMUM 2M 4X20X1	5	1.78	80	476	440	402	360	312	1.72	2.25
566520	ERIFLEX FLEXIBAR SUMMUM 2M 5X20X1	5	2.15	100	498	460	420	376	326	1.72	2.25
566550	ERIFLEX FLEXIBAR SUMMUM 2M 2X24X1	5	1.24	48	450	416	380	340	295	1.72	2.25
566560	ERIFLEX FLEXIBAR SUMMUM 2M 3X24X1	5	1.68	72	490	453	413	370	320	1.72	2.25
566570	ERIFLEX FLEXIBAR SUMMUM 2M 4X24X1	5	2.12	96	550	540	465	416	360	1.72	2.25
566580	ERIFLEX FLEXIBAR SUMMUM 2M 5X24X1	5	2.55	120	608	563	514	460	398	1.72	2.25
566590	ERIFLEX FLEXIBAR SUMMUM 2M 6X24X1	5	2.99	144	670	620	566	506	438	1.72	2.25
566630	ERIFLEX FLEXIBAR SUMMUM 2M 3X32X1	5	2.2	96	570	525	480	430	372	1.72	2.25
566640	ERIFLEX FLEXIBAR SUMMUM 2M 4X32X1	5	2.78	128	648	600	548	490	425	1.72	2.25
566650	ERIFLEX FLEXIBAR SUMMUM 2M 5X32X1	5	3.36	160	758	702	640	573	496	1.72	2.25
566660	ERIFLEX FLEXIBAR SUMMUM 2M 6X32X1	5	3.94	192	846	783	715	640	555	1.72	2.25
566670	ERIFLEX FLEXIBAR SUMMUM 2M 8X32X1	5	5.1	256	1018	943	860	770	667	1.72	2.25
566720	ERIFLEX FLEXIBAR SUMMUM 2M 5X40X1	5	4.16	200	900	832	760	680	590	1.72	2.25
566730	ERIFLEX FLEXIBAR SUMMUM 2M 6X40X1	5	4.89	240	1018	943	860	770	667	1.72	2.25
566750	ERIFLEX FLEXIBAR SUMMUM 2M 10X40X1	5	7.78	400	1400	1295	1181	1055	915	1.72	2.25
566780	ERIFLEX FLEXIBAR SUMMUM 2M 5X50X1	5	5.17	250	1100	1016	930	830	718	1.72	2.25
566800	ERIFLEX FLEXIBAR SUMMUM 2M 8X50X1	2	7.87	400	1393	1290	1175	1050	912	1.72	2.25
566810	ERIFLEX FLEXIBAR SUMMUM 2M 10X50X1	2	9.68	500	1650	1525	1395	1245	1080	1.72	2.25
566870	ERIFLEX FLEXIBAR SUMMUM 2M 10X63X1	2	12.14	630	1895	1755	1600	1435	1240	1.65	2.12

## ERIFLEX® FLEXIBAR – Made To Order (MTO)

ERICO® can provide preformed ERIFLEX® FLEXIBAR configurations to your drawing specification. 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!



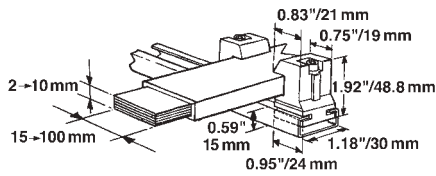
# ERIFLEX® FLEXIBAR SUPPORTS & SPACER CLAMPS



Ease of installation  
Provides support  
Allows for proper cooling

## UFS KIT ERIFLEX® FLEXIBAR SUPPORT

Assembly comprised of a 2 m aluminum section and 24 retaining blocks made of glass-reinforced halogen-free polyimide.  
Possible to make up 3 supports, 25.06 inches long each for 4 ERIFLEX® FLEXIBAR  
Recommended distance between supports: 16 inches max.



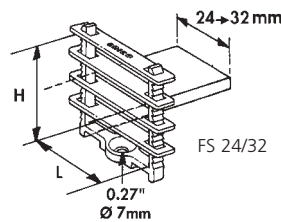
Part No.	DESCRIPTION		
553590	UFS Kit	1	5.07



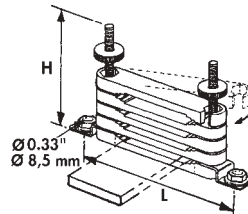
## FS ERIFLEX® FLEXIBAR SPACER CLAMP



Ensures correct support for ERIFLEX® FLEXIBAR in parallel, without damage to the insulation.  
Ensures correct space for optimum cooling.  
UL® 67 IEC 439



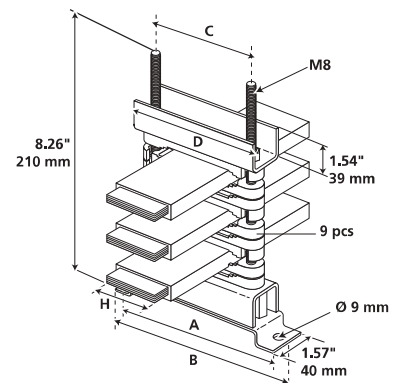
FS 40/63  
FS 80/100



Part No.	DESCRIPTION	Range of ERIFLEX FLEXIBAR	H inches	L inches		
553550	FS 24	≤ 24 mm	2.08	1.18	25	0.03
553560	FS 32	≤ 32 mm	2.08	1.49	25	0.04
553570	FS 40-63	40-50 & 63 mm	3.74	5.9	10	2.2
553580	FS 80-100	80/100 mm	5.51	7.87	10	5.51

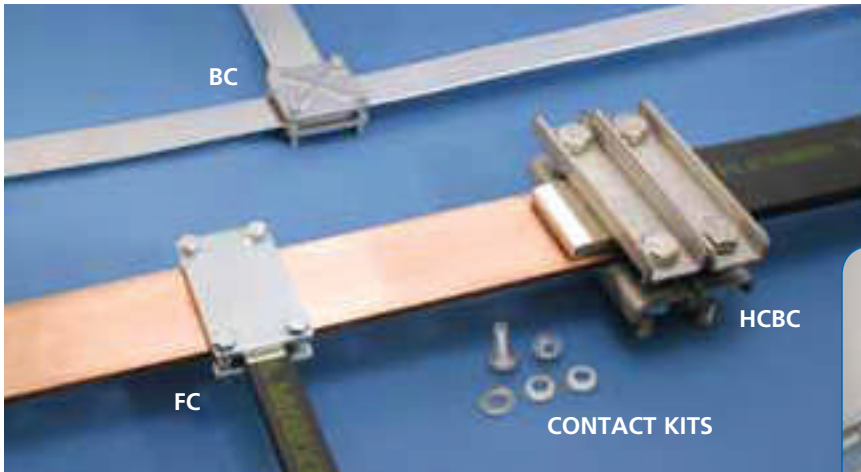
## RFS REINFORCED ERIFLEX FLEXIBAR SUPPORT

Allows up to 8 ERIFLEX® FLEXIBAR in parallel.  
Easy mounting in the panel.  
Recommended distance between supports: 16 inches.



Part No.	DESCRIPTION	A inches	B inches	C inches	D inches	ERIFLEX FLEXIBAR Range H (mm)		
553370	RFS 40-63	5.90	6.89	3.54	4.72	40 => 63	1	0.53
553380	RFS 80-100	7.87	8.86	5.51	6.69	80 => 100	1	0.66

# CONNECTING CLAMPS

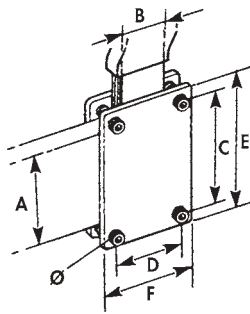


Very compact  
Space saving  
Easy connection method



## FC ERIFLEX® FLEXIBAR CLAMP

Clamping capacity: 0.79 inches  
2 zinc plated steel plates complete with M8 screws

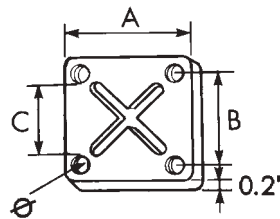


Clamping Capacity = 0.79 inches (20mm)

Part No.	DESCRIPTION	A inches	B mm	C inches	D inches	E inches	F inches	Diam (mm)	Torque (ft./lbs.)	Box	Icon
553020	FC 50 x 24	2	20-24	2.32	1.42	2.95	2.05	M8	7.37	3	0.7
553030	FC 50 x 32	2	32	2.32	1.73	2.95	2.36	M8	7.37	3	0.8
553040	FC 50 x 40	2	40	2.32	2.05	2.95	2.68	M8	7.37	3	0.91
553050	FC 80 x 24	3.18	20-24	3.5	1.42	4.13	2.05	M8	7.37	3	0.95
553060	FC 80 x 32	3.18	32	3.5	1.73	4.13	2.36	M8	7.37	3	1.08
553070	FC 80 x 50	3.18	50	3.5	2.44	4.13	3.07	M8	7.37	3	1.41
568700	FC 100 x 32	3.97	32	4.29	1.73	4.92	2.36	M8	7.37	3	1.47
568730	FC 120 x 32	4.4	32	5.08	1.73	4.92	2.36	M8	7.37	3	1.67

## BC RIBBED-STEEL BUSBAR CLAMP

Clamping capacity: 0.79 inches  
Maximum clamping capacity is 50 mm using longer screws SAE Grade 5  
2 ribbed zinc-plated hardened-steel plates complete with screws  
UL® 67 Recognized



Clamping Capacity = 0.79 inches (20mm)

Part No.	DESCRIPTION	A inches	B inches	C inches	Ø mm	Torque (ft./lbs.)	Box	Icon
553200	BC 30	2.2	1.65	1.37	M6	5.16	8	0.68
553210	BC 40	2.6	2.05	1.77	M6	5.16	8	0.81
553220	BC 50	3.26	2.52	2.16	M8	14.75	8	1.3
553230	BC 63	3.66	2.91	2.55	M8	14.75	4	1.63
553250	BC 80	4.64	3.78	3.34	M10	29.5	4	2.6
553260	BC 100	5.67	4.64	4.21	M10	29.5	4	3.79

## CONTACT KITS METAL NUTS, BOLTS AND WASHERS

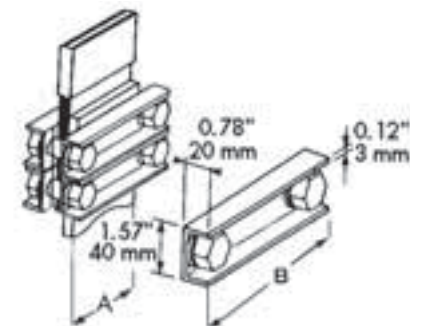
For good electrical contact  
100 nuts – 100 bolts 200 flat washers  
200 contact washers (SAE Grade 5 hardware)

Part No.	DESCRIPTION	Torque (ft./lbs.)	Box
561400	CONTACT KIT 1/4 - 20 x 5/8"	9	100
561401	CONTACT KIT 5/16 - 18 x 1-1/4"	18	100
561402	CONTACT KIT 7/16 - 14 x 1-1/4"	50	100
561403	CONTACT KIT 7/16 - 14 x 2"	50	100
561404	CONTACT KIT 1/2 - 13 x 1-1/4"	75	100
561405	CONTACT KIT 1/2 - 13 x 1-1/2"	75	100
561406	CONTACT KIT 1/2 - 13 x 2"	75	100

## HCBC HIGH CURRENT BUSBAR CLAMP

Clamping capacity: 1.58 inches  
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 two clamps to guarantee the contact pressure



Part No.	DESCRIPTION	Busbar Width A (in.)	Busbar Width A (mm)	Overall Width B (in.)	Overall Bolt Length (in.)	Torque (ft./lbs.)	Box	Icon
553100	HCBC 80	3.15	80	5.5	2.35	74	1	1.85
553110	HCBC 100	3.94	100	6.3	2.35	74	1	2.03
553120	HCBC 120	4.72	120	7.2	3.15	74	1	2.2