

Insulated copper braids

Busbar



The solution for

> Electrical distribution



Strong points

> Easy to install
> Wide range of applications
> Compatibility

Compliance with standards

Customised solutions

> Tin-plated contact surface
> For any other length, please contact us

Function

SOCOMEC **insulated copper braids** are mainly utilised for providing the power connections between distribution busbars and the devices within an electrical panel.
Their flexibility is particularly suited to complex and diverse connections in confined spaces.

Technical characteristics

- Electrolytic copper, annealing state
- Operating voltage 1000 VAC - 1500 VDC
- Dielectric strength 20 KV / mm
- Operating temperature: -40°C / +105°C
- Self-extinguishing: UL 94 V0
- Contact surface: Bare copper

Advantages

Easy to install
- Compact design.
- Length and orientation are easily adapted.
- Prewired.

Wide range of applications
- Amperage up to 1000 A.
- Suitable for various connection ranges.
- Lengths from 200 to 800 mm.

Compatibility
- With SOCOMEC devices.
- With most commercial circuit breakers.

Part numbers and dimensions

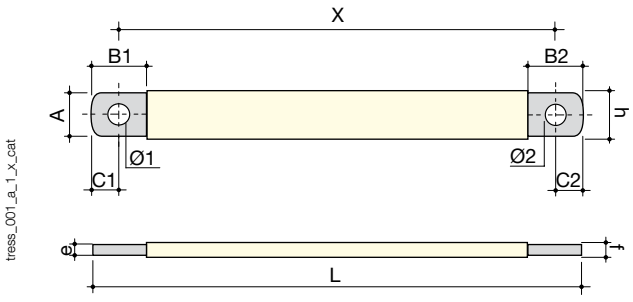
Current rating at ambient temperature of 630 to 7000 A					Dimensions										Range		
35°C (A)	Nominal rating 45°C (A)	55°C (A)	Reference	Section mm²	A Width (mm)	e Thickness (mm)	X Distance (mm)	L Length (mm)	Ø 1 (mm)	Ø 2 (mm)	C1 (mm)	C2 (mm)	h Width (mm)	f Thickness (mm)	B1 (mm)	B2 (mm)	Weight (kg)
180	**160**	140	4516 **1620**	25	20	1.5	200	220	8.5	10.5	8	12	22	3.5	25	30	0.08
180	**160**	140	4516 **1625**	25	20	1.5	250	270	8.5	10.5	8	12	22	3.5	25	30	0.09
180	**160**	140	4516 **1630**	25	20	1.5	300	320	8.5	10.5	8	12	22	3.5	25	30	0.11
180	**160**	140	4516 **1635**	25	20	1.5	350	370	8.5	10.5	8	12	22	3.5	25	30	0.12
180	**160**	140	4516 **1640**	25	20	1.5	400	420	8.5	10.5	8	12	22	3.5	25	30	0.14
180	**160**	140	4516 **1650**	25	20	1.5	500	520	8.5	10.5	8	12	22	3.5	25	30	0.17
280	**250**	220	4516 **2520**	50	20	3	200	220	8.5	10.5	8	12	22	5	25	30	0.14
280	**250**	220	4516 **2525**	50	20	3	250	270	8.5	10.5	8	12	22	5	25	30	0.16
280	**250**	220	4516 **2530**	50	20	3	300	320	8.5	10.5	8	12	22	5	25	30	0.19
280	**250**	220	4516 **2535**	50	20	3	350	370	8.5	10.5	8	12	22	5	25	30	0.22
280	**250**	220	4516 **2540**	50	20	3	400	420	8.5	10.5	8	12	22	5	25	30	0.25
280	**250**	220	4516 **2550**	50	20	3	500	520	8.5	10.5	8	12	22	5	25	30	0.30
440	**400**	320	4516 **4020**	120	32	5	200	222	10.5	10.5	10	12	34	7	25	30	0.30
440	**400**	320	4516 **4025**	120	32	5	250	272	10.5	10.5	10	12	34	7	25	30	0.36
440	**400**	320	4516 **4030**	120	32	5	300	322	10.5	10.5	10	12	34	7	25	30	0.43
440	**400**	320	4516 **4035**	120	32	5	350	372	10.5	10.5	10	12	34	7	25	30	0.49
440	**400**	320	4516 **4040**	120	32	5	400	422	10.5	10.5	10	12	34	7	25	30	0.56
440	**400**	320	4516 **4050**	120	32	5	500	522	10.5	10.5	10	12	34	7	25	30	0.69
440	**400**	320	4516 **4060**	120	32	5	600	622	10.5	10.5	10	12	34	7	25	30	0.82
440	**400**	320	4516 **4080**	120	32	5	800	822	10.5	10.5	10	12	34	7	25	30	1.07
690	**630**	560	4516 **6325**	240	32	10	250	274	12.5	10.5	12	12	34	12	35	30	0.71
690	**630**	560	4516 **6330**	240	32	10	300	324	12.5	10.5	12	12	34	12	35	30	0.84
690	**630**	560	4516 **6335**	240	32	10	350	374	12.5	10.5	12	12	34	12	35	30	0.96
690	**630**	560	4516 **6340**	240	32	10	400	424	12.5	10.5	12	12	34	12	35	30	1.09
690	**630**	560	4516 **6350**	240	32	10	500	524	12.5	10.5	12	12	34	12	35	30	1.35
690	**630**	560	4516 **6360**	240	32	10	600	624	12.5	10.5	12	12	34	12	35	30	1.60
690	**630**	560	4516 **6380**	240	32	10	800	824	12.5	10.5	12	12	34	12	35	30	2.10

Compatibility with devices

Manufacturer	Range	160 A Ref. 4516 16xx	250 A Ref. 4516 25xx	400 A Ref. 4516 40xx	630 A Ref. 4516 63xx
Socomec	SIRCO	SIRCO 125/160	SIRCO 200/250	SIRCO 315/400	SIRCO 500/630
	INOSYS	INOSYS 160	INOSYS 250/315	INOSYS 400	INOSYS 500/630
	SIDER ND	SIDER ND 125	SIDER ND 200	SIDER ND 250/315/400	SIDER ND 500
	SIDERMAT	-	SIDERMAT 250	SIDERMAT 400	SIDERMAT 630
	FUSERBLOC	FUSERBLOC 100/125/160	FUSERBLOC 250	FUSERBLOC 400	FUSERBLOC 630
Schneider Electric (Square D)	NSX	NSX 100/160	NSX 250	NSX 400	NSX 630
	NSF/NSJ	NSF 150	NSF 250	NSJ 400	NSJ 600
HAGER	Series h3	h3 125/160	h3 250	h3 630	h3 630
Moeller / Eaton / Cutler Hammer	NZM	NZM 1	NZM 2	NZM 3	NZM 3
	Series G	EG/JG Frame	JG Frame	LG Frame	LG Frame
ABB	Tmax	Tmax T1/T2	Tmax T3/T4*	Tmax T5	Tmax T5
Siemens	Series 3VL		3VL400	3VL400	3VL400X
	Series 3VT		3VT2	3VT3	3VT3
	Series 3VA	3VA2	3VA2		
Legrand	DPX	DRX250/DPX250 (ER)	DRX250/DPX250 (ER)	DPX630	DPX630
Bticino	MEGATIKER	M160/250E	M250E	M400/630E	M630E

** Connection T4 320 A 2 x 250 A*

Dimensions



Parallel systems

Putting braids in parallel increases the temperature of the air near the braid, which forms a reduction coefficient

Correction factor	
	Current
	2 x current x 0.8
	3 x current x 0.65