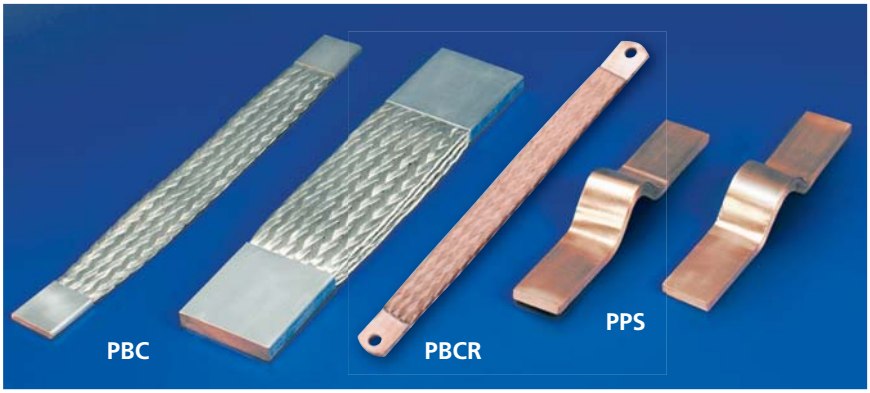
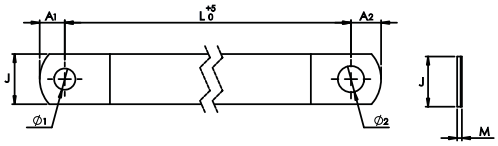
Power Shunt (PBC, PBCR & PPS)



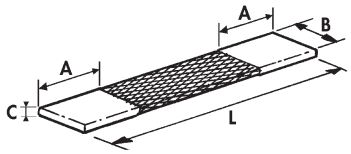
- High flexibility
- Reduce vibrations
- Ideal for transformer-busduct link
- Intensity: Up to 4600 A



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 mm² for grounding and bonding application
- UL® Recognized to UL 67

Part No.	Description	Section mm²	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

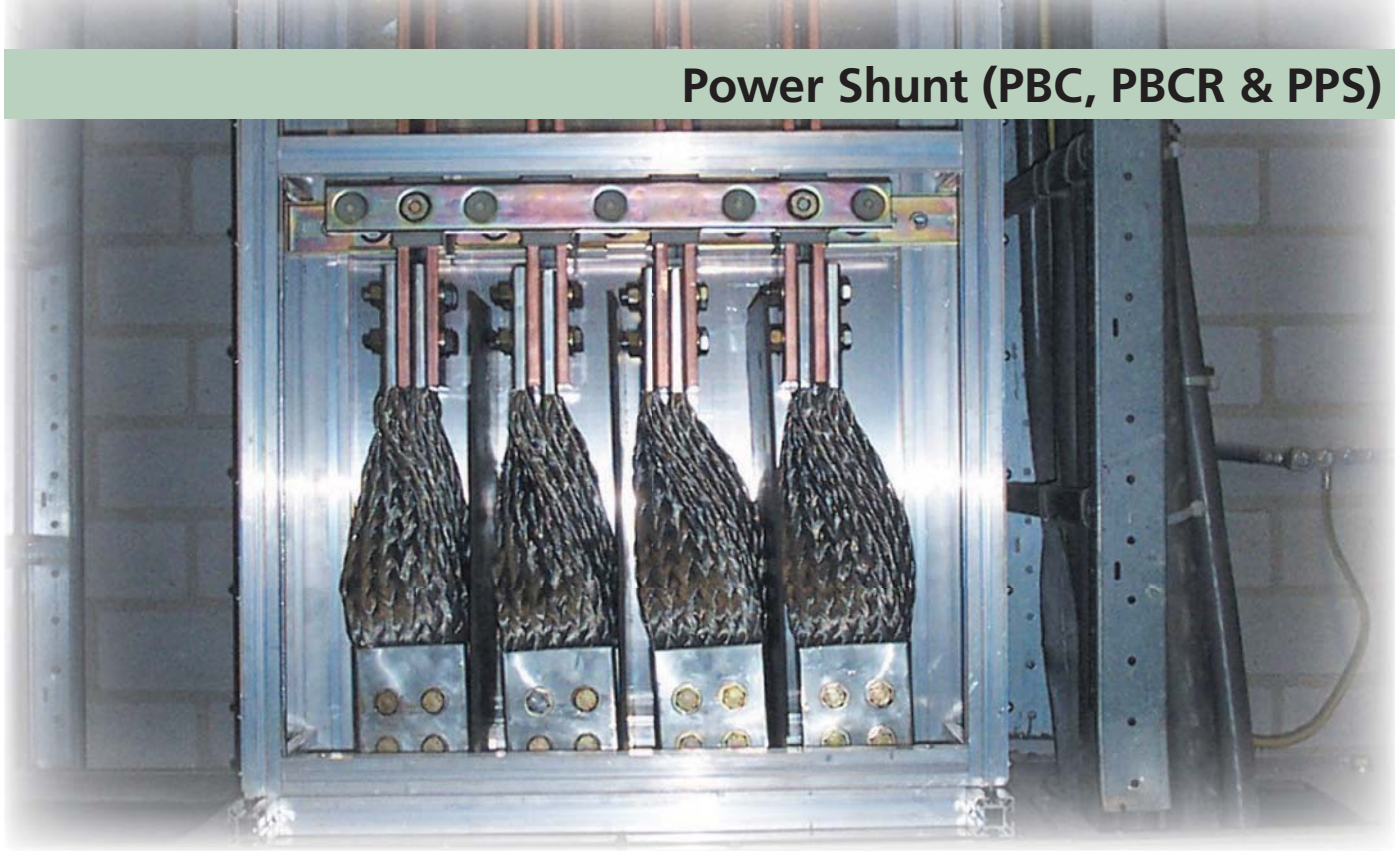


PBC
Braided Power Shunts

- 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 mm²	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	14,0	450	1	4,26
564900	PBC 1000 x 450	1000	1651	2642	2188	3500	105	100	16,0	450	1	5,47
564030	PBC 1200 x 500	1200	1982	3170	2626	4208	125	120	17,5	500	1	7,16

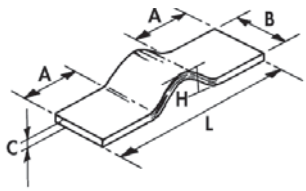
Power Shunt (PBC, PBCR & PPS)



PBC Application

PPS
Presswelded Power Shunts

Part No.	Description	Section mm²	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 0,2 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.

ERICO 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.