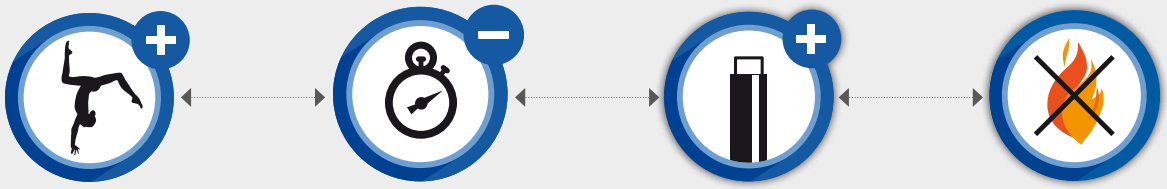
J-LINK Insulated copper braided shunts

DATA SHEET

J-LINK ADDED VALUE



J-LINK is a ready-to-use flexible prefabricated shunt made of tinned copper braid, coated with PVC insulation.
J-LINK is the quickest and most convenient solution to create electrical connections from 125 to 630 A.
The connection terminals are made of pressed tinned copper tubes. They were designed by looking at the terminals of the most widespread switchgears on the market, thus making it possible to get the best electrical contact possible.
The hole diameter, on one side, allows the optimization of the electrical contact in relation with the switch terminal whilst on the other side allows the possibility to have a universal contact with the bar distribution system.
Made of PVC, the insulation meets all the electrical specifications required in LV applications.
Maximum continuous working temperature is 105°C.

The best alternative to cable connections and flexible bars

ADVANTAGES

Ready-to-use connections: no preventive operation is required
- Extreme flexibility compared to a cable with similar cross-section
- Volume reduction inside the panel board
- Weight reduction
- Great time saving
- No cable to cut to measure
- No stripping of cable heads
- No lug to buy
- No crimping needed

EXCELLENT ELECTRICAL PARAMETERS

- Excellent electrical insulation
- Improved contact surface
- Improved ampacity at equal cross-sections compared to a cable and/or reduced cross-sections at the same rated current
- Reduction in heat due to the lack of crimped connections and to higher ampacities
- Excellent short-circuit resistance

RANGE

Cross-sections: from 25 mm^2 to 240 mm^2
Lengths: from 230 mm to 1030 mm
Rated ampacity: from 125 A to 630 A

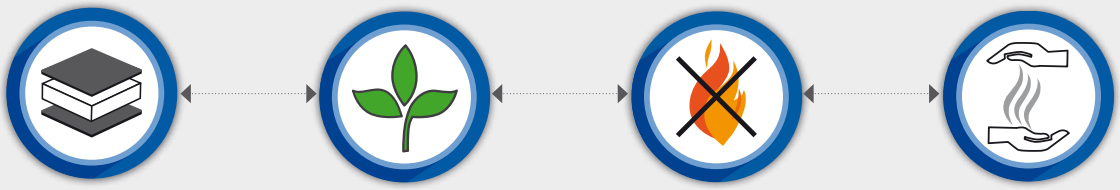
TEKNOMEGA

DATA SHEET

J-link Plus

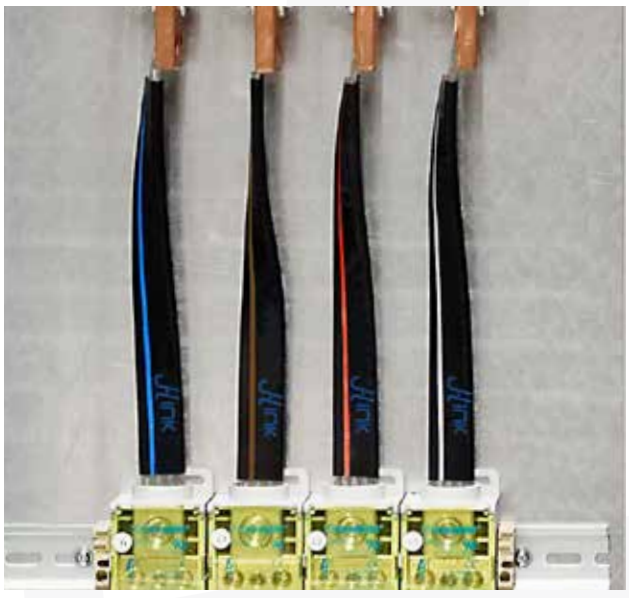
High safety performance with J-LINK PLUS, equipped with halogen free insulation, flame retardant, low smoke emission, hyper flexibility. J-LINK PLUS is recognizable from the light blue line.

J-LINK PLUS ADDED VALUE



J-link Color

Upon request, J-LINK becomes J-LINK COLOR, to identify the phases, or to satisfy personal taste as well as corporate aesthetic.



J-LINK Insulated copper braided shunts

DATA SHEET

TECHNICAL FEATURES

Insulation
PVC Compound
Self-extinguishing UL 94-V0
Thickness: ≈ 2 mm
Black color with 2 white lines
Max. elongation: 365%
Hardness: 80 Shore A
Tensile strength: 19 MPa

Finished product
Dielectric rigidity: 20 kV/mm
Rated voltage: 1000 V AC/1500 V DC
Working temperature: -40°C to +105°C

Conductor
Tinned electrolytic copper braid Cu-ETP 99.90%
Standard wire: 0.20 mm
Terminal in tinned copper tube

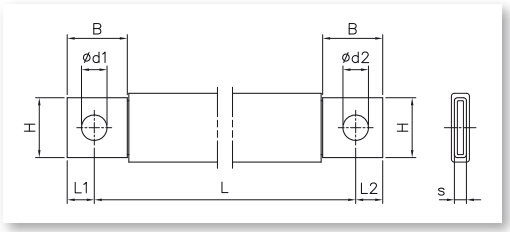
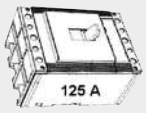
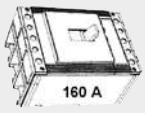
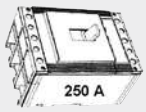
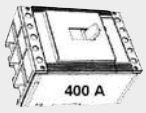
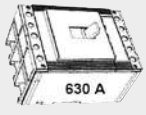


Table of ampacities (A) based on the switch ampacity or on the ΔT temperature rise as per standard IEC 61439-1
Reference room temperature 40°C

Code	Reference		Sect. (mm²)	Use with switch	Dimensions (mm)								Rated Intensity In (A) Temperature Rise ΔT		
					L	B	H	L1	L2	d1	d2	s	45°C	35°C	25°C
JLK1000	JLK 25-230	10	25	 125 A	230	20	20	7,5	7,5	8,5	10,5	4,3	185	175	145
JLK1005	JLK 25-330	10	25		330	20	20	7,5	7,5	8,5	10,5	4,3			
JLK1010	JLK 25-430	10	25		430	20	20	7,5	7,5	8,5	10,5	4,3			
JLK1015	JLK 25-530	10	25		530	20	20	7,5	7,5	8,5	10,5	4,3			
JLK1020	JLK 25-630	10	25		630	20	20	7,5	7,5	8,5	10,5	4,3			
JLK1021	JLK 25-730	10	25		730	20	20	7,5	7,5	8,5	10,5	4,3			
JLK1022	JLK 25-830	10	25		830	20	20	7,5	7,5	8,5	10,5	4,3			
JLK1023	JLK 25-930	10	25		930	20	20	7,5	7,5	8,5	10,5	4,3			
JLK1024	JLK 25-1030	10	25		1030	20	20	7,5	7,5	8,5	10,5	4,3			
JLK1025	JLK 35-230	10	35	 160 A	230	20	20	9	9	8,5	10,5	4,9	225	205	170
JLK1030	JLK 35-330	10	35		330	20	20	9	9	8,5	10,5	4,9			
JLK1035	JLK 35-430	10	35		430	20	20	9	9	8,5	10,5	4,9			
JLK1040	JLK35-530	10	35		530	20	20	9	9	8,5	10,5	4,9			
JLK1045	JLK 35-630	10	35		630	20	20	9	9	8,5	10,5	4,9			
JLK1046	JLK 35-730	10	35		730	20	20	9	9	8,5	10,5	4,9			
JLK1047	JLK 35-830	10	35		830	20	20	9	9	8,5	10,5	4,9			
JLK1048	JLK 35-930	10	35		930	20	20	9	9	8,5	10,5	4,9			
JLK1049	JLK 35-1030	10	35		1030	20	20	9	9	8,5	10,5	4,9			
JLK1050	JLK 50-230	10	50	 250 A	230	20	20	9	9	8,5	10,5	5	280	250	220
JLK1055	JLK 50-330	10	50		330	20	20	9	9	8,5	10,5	5			
JLK1060	JLK 50-430	10	50		430	20	20	9	9	8,5	10,5	5			
JLK1065	JLK 50-530	10	50		530	20	20	9	9	8,5	10,5	5			
JLK1070	JLK 50-630	10	50		630	20	20	9	9	8,5	10,5	5			
JLK1071	JLK 50-730	10	50		730	20	20	9	9	8,5	10,5	5			
JLK1072	JLK 50-830	10	50		830	20	20	9	9	8,5	10,5	5			
JLK1073	JLK 50-930	10	50		930	20	20	9	9	8,5	10,5	5			
JLK1074	JLK 50-1030	10	50		1030	20	20	9	9	8,5	10,5	5			
JLK1075	JLK 120-330	2	120	 400 A	330	30	30	11	15	10,5	10,5	7,5	440	400	335
JLK1080	JLK 120-430	2	120		430	30	30	11	15	10,5	10,5	7,5			
JLK1085	JLK 120-530	2	120		530	30	30	11	15	10,5	10,5	7,5			
JLK1090	JLK 120-630	2	120		630	30	30	11	15	10,5	10,5	7,5			
JLK1095	JLK 120-730	2	120		730	30	30	11	15	10,5	10,5	7,5			
JLK1096	JLK 120-830	2	120		830	30	30	11	15	10,5	10,5	7,5			
JLK1097	JLK 120-930	2	120		930	30	30	11	15	10,5	10,5	7,5			
JLK1098	JLK 120-1030	2	120		1030	30	30	11	15	10,5	10,5	7,5			
JLK1100	JLK 240-330	2	240	 630 A	330	35	32	16	16	12,5	10,5	12,5	730	680	565
JLK1105	JLK 240-430	2	240		430	35	32	16	16	12,5	10,5	12,5			
JLK1110	JLK 240-530	2	240		530	35	32	16	16	12,5	10,5	12,5			
JLK1115	JLK 240-630	2	240		630	35	32	16	16	12,5	10,5	12,5			
JLK1120	JLK 240-730	2	240		730	35	32	16	16	12,5	10,5	12,5			
JLK1125	JLK 240-830	2	240		830	35	32	16	16	12,5	10,5	12,5			
JLK1130	JLK 240-930	2	240		930	35	32	16	16	12,5	10,5	12,5			
JLK1135	JLK 240-1030	2	240		1030	35	32	16	16	12,5	10,5	12,5			

Derating coefficient for use of J-LINK in parallel

Cross-section (mm²)		
25	1,70	2,00
35	1,70	2,00
50	1,70	1,95
120	1,65	1,85
240	1,55	1,75

Comparison between the use of cable and J-LINK

In (A)	**Cable Type N07-VK	J-LINK
	Cross-section (mm2)	
125	35	25
160	50 ÷ 70	25 ÷ 35
250	95 ÷ 120	50
400	185	120
630	2 x 150	240

DATA SHEET

TECHNICAL FEATURES

Insulation
TPE Compound
Self-extinguishing UL 94-V0
Thickness: ≈ 1,8 mm
Black color with 2 light blue lines
Max. elongation: 550%
Hardness: 80 Shore A
Tensile strength: 6MPa
Halogen free
Low smoke emission

Finished product
Dielectric rigidity: 20 kV/mm
Rated voltage: 1000 V AC/1500 V DC
Working temperature: -40°C to +105°C

Conductor
Tinned electrolytic copper braid Cu-ETP 99.90%
Standard wire: 0.20mm
Terminal in tinned copper tube

J-link Plus

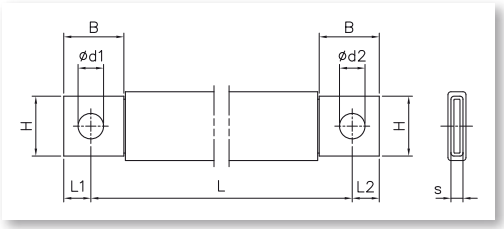
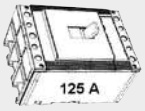
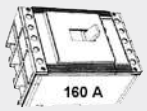
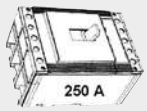
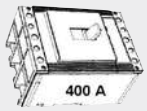
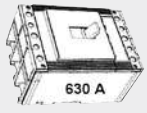


Table of ampacities (A) based on the switch ampacity or on the ΔT temperature rise as per standard IEC 61439-1
Reference room temperature 40°C

Code	Reference		Sect. (mm²)	Use with switch	Dimensions (mm)								Rated Intensity In (A) Temperature Rise ΔT		
					L	B	H	L1	L2	d1	d2	s	45°C	35°C	25°C
JLK5000	JLP 25-230	10	25	 125 A	230	20	20	7,5	7,5	8,5	10,5	4,3	185	175	145
JLK5005	JLP 25-330	10	25		330	20	20	7,5	7,5	8,5	10,5	4,3			
JLK5010	JLP 25-430	10	25		430	20	20	7,5	7,5	8,5	10,5	4,3			
JLK5015	JLP 25-530	10	25		530	20	20	7,5	7,5	8,5	10,5	4,3			
JLK5020	JLP 25-630	10	25		630	20	20	7,5	7,5	8,5	10,5	4,3			
JLK5021	JLP 25-730	10	25		730	20	20	7,5	7,5	8,5	10,5	4,3			
JLK5022	JLP 25-830	10	25		830	20	20	7,5	7,5	8,5	10,5	4,3			
JLK5023	JLP 25-930	10	25		930	20	20	7,5	7,5	8,5	10,5	4,3			
JLK5024	JLP 25-1030	10	25		1030	20	20	7,5	7,5	8,5	10,5	4,3			
JLK5025	JLP 35-230	10	35	 160 A	230	20	20	9	9	8,5	10,5	4,9	225	205	170
JLK5030	JLP 35-330	10	35		330	20	20	9	9	8,5	10,5	4,9			
JLK5035	JLP 35-430	10	35		430	20	20	9	9	8,5	10,5	4,9			
JLK5040	JLP 35-530	10	35		530	20	20	9	9	8,5	10,5	4,9			
JLK5045	JLP 35-630	10	35		630	20	20	9	9	8,5	10,5	4,9			
JLK5046	JLP 35-730	10	35		730	20	20	9	9	8,5	10,5	4,9			
JLK5047	JLP 35-830	10	35		830	20	20	9	9	8,5	10,5	4,9			
JLK5048	JLP 35-930	10	35		930	20	20	9	9	8,5	10,5	4,9			
JLK5049	JLP 35-1030	10	35		1030	20	20	9	9	8,5	10,5	4,9			
JLK5050	JLP 50-230	10	50	 250 A	230	20	20	9	9	8,5	10,5	5	280	250	220
JLK5055	JLP 50-330	10	50		330	20	20	9	9	8,5	10,5	5			
JLK5060	JLP 50-430	10	50		430	20	20	9	9	8,5	10,5	5			
JLK5065	JLP 50-530	10	50		530	20	20	9	9	8,5	10,5	5			
JLK5070	JLP 50-630	10	50		630	20	20	9	9	8,5	10,5	5			
JLK5071	JLP 50-730	10	50		730	20	20	9	9	8,5	10,5	5			
JLK5072	JLP 50-830	10	50		830	20	20	9	9	8,5	10,5	5			
JLK5073	JLP 50-930	10	50		930	20	20	9	9	8,5	10,5	5			
JLK5074	JLP 50-1030	10	50		1030	20	20	9	9	8,5	10,5	5			
JLK5075	JLP 120-330	2	120	 400 A	330	30	30	11	15	10,5	10,5	7,5	440	400	335
JLK5080	JLP 120-430	2	120		430	30	30	11	15	10,5	10,5	7,5			
JLK5085	JLP 120-530	2	120		530	30	30	11	15	10,5	10,5	7,5			
JLK5090	JLP 120-630	2	120		630	30	30	11	15	10,5	10,5	7,5			
JLK5095	JLP 120-730	2	120		730	30	30	11	15	10,5	10,5	7,5			
JLK5096	JLP 120-830	2	120		830	30	30	11	15	10,5	10,5	7,5			
JLK5097	JLP 120-930	2	120		930	30	30	11	15	10,5	10,5	7,5			
JLK5098	JLP 120-1030	2	120		1030	30	30	11	15	10,5	10,5	7,5			
JLK5100	JLP 240-330	2	240	 630 A	330	35	32	16	16	12,5	10,5	12,5	730	680	565
JLK5105	JLP 240-430	2	240		430	35	32	16	16	12,5	10,5	12,5			
JLK5110	JLP 240-530	2	240		530	35	32	16	16	12,5	10,5	12,5			
JLK5115	JLP 240-630	2	240		630	35	32	16	16	12,5	10,5	12,5			
JLK5120	JLP 240-730	2	240		730	35	32	16	16	12,5	10,5	12,5			
JLK5125	JLP 240-830	2	240		830	35	32	16	16	12,5	10,5	12,5			
JLK5130	JLP 240-930	2	240		930	35	32	16	16	12,5	10,5	12,5			
JLK5135	JLP 240-1030	2	240		1030	35	32	16	16	12,5	10,5	12,5			

Derating coefficient for use of J-LINK PLUS in parallel

Cross-section (mm²)		
25	1,70	2,00
35	1,70	2,00
50	1,70	1,95
120	1,65	1,85
240	1,55	1,75

Comparison between the use of cable and J-LINK PLUS

In (A)	**Cable Type N07-VK	J-LINK
	Cross-section (mm2)	
125	35	25
160	50 ÷ 70	25 ÷ 35
250	95 ÷ 120	50
400	185	120
630	2 x 150	240