

LIGHTING BUSBAR TRUNKING SYSTEM

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CD-K 25A-40A



ISO9001/ISO14001/ISO18001

BK S

STROMSCHIENEN AG
LIGHTING BUSBAR SYSTEM



CD System 25A–40A

pre-wired, plug-in, flexible lighting busbar trunking

The CD system is designed for applications from 25A to 40A. It is used particularly where attractive appearance is important, such as in department stores, supermarkets or furniture stores, and offers efficient power supply to lighting installations and small loads. Any commercially available lighting system can be easily suspended from any point along the trunking unit.

Flexible and reliable

The CD lighting trunking range features snap-fit joints and brackets for rapid installation, an aesthetically pleasing white finish which eliminates the need for painting, and IP54 protection which ensures exceptionally long life, even in hostile environments. Even when installation requirements Available in 2 x 25, 30, 40 and 2 x 40 amp ratings at 415V with a wide choice of copper conductor configurations and an interlock to ensure correct interconnection of phases, CD lighting trunking represents a new concept in miniature plug-in busbars.

Quick and easy to install

The universal hanger bracket designed to support the busbar trunking or the luminaire is normally required at 3 metre centres, making installation quick and easy. Tap-off units are available fused or unfused, 16 Amp TP & N + E or phase selectable SP & N + E. Tapping outlets are provided at either 500mm or 1 metre intervals, each complete with a non-removable hinged cover complete with locking fastener to fittings from CDK busbar. change, the totally recoverable CD lighting trunking can easily be removed and re-installed in a new location. prevent accidental contact with the live parts and ensure the opening remains free from debris for future use.



Push-fit joints enable rapid, uncomplicated assembly of the trunking units without tools being required.



With the CD system, the current can be fed in at the beginning or the end of the trunking units – Centre Feed units available on request.



Any commercially available lighting system can be easily suspended from any point along the trunking unit.

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Technical Data and Part Numbers for CD Busbar Trunking

Current Rating	A	30	30	30	2 x 25	40	40	40	2 x 40
Product Reference (CD-K-...)		1302	1303	1304	2254	1402	1403	1404	2404
Ambient temperature (min/max)	°C	-5°C to +40°C							
Degree of protection		IP54; IEC/EN 60529							
Mounting		Edgewise, with tap-off points on the side							

Conductors

Rated Operational Voltage U _e	V~	400	400	400	400	400	400	400	400
Frequency	Hz	50–60	50–60	50–60	50–60	50–60	50–60	50–60	50–60
Rated Current I _e therm. Rated current at max. 40°C and 35°C Amps averaged over 24 hours		30	30	30	2 x 25	40	40	40	2 x 40

Conductor impedance at 50Hz and 20°C busbar temperature

Resistance R ₂₀	m /m	5.79	5.79	5.79	4.56	3.55	3.55	3.55	3.69
Reactance X ₂₀	m /m	0.26	0.26	0.26	0.15	0.40	0.40	0.40	0.13
Impedance Z ₂₀	m /m	5.80	5.80	5.80	4.56	3.57	3.57	3.57	3.69

Conductor impedance in the event of a fault

AC Resistance R _F	m /m	8.24	8.24	8.24	7.50	5.61	5.61	5.61	4.17
Reactance X _F	m /m	0.44	0.44	0.44	0.32	0.80	0.80	0.80	0.40
Impedance Z _F	m /m	8.25	8.25	8.25	7.51	5.67	5.67	5.67	4.18

Zero Impedance tested to IEC 60 909, DIN VDE 0102

Resistance R ₀	Phase to N m /m	24.24	24.24	24.24	18.59	14.85	14.85	14.85	14.33
Reactance X ₀	Phase to N m /m	1.77	1.77	1.77	0.82	0.99	0.99	0.99	0.78
Impedance Z ₀	Phase to N m /m	24.30	24.30	24.30	18.61	14.88	14.88	14.88	14.33
Resistance R ₀	Phase to PE m /m	12	12	12	13.49	9.87	9.87	9.87	5.15
Reactance X ₀	Phase to PE m /m	1.8	1.8	1.8	0.82	1.02	1.02	1.02	0.74
Impedance Z ₀	Phase to PE m /m	12.13	12.13	12.13	13.52	9.92	9.92	9.92	5.21
Trunking Weight	kg/m	0.75	0.78	0.81	1.06	0.78	0.83	0.88	1.22

Short Circuit Rating

Rated peak withstand I _{pk}	kA	2.4	2.4	2.4	3	3.6	3.6	3.6	3.6
Rated short time withstand current I _{cw} (t=1 s)	kA	0.56	0.56	0.56	0.69	0.85	0.85	0.85	0.85
Rated short-time withstand current I _{cw} (t=0.1 s)	kA	1.6	1.6	1.6	2	2.4	2.4	2.4	2.4

Number of active conductors		2	3	4	2 x 4	2	3	4	2 x 4
Terminal Capacity									
L1, L2, L3	mm ²	3.2	3.2	3.2	4	5	5	5	5
N	mm ²	3.2	3.2	3.2	4	5	5	5	5
PE (enclosure) Cu	mm ²	11	11	11	11	11	11	11	11
Conductor Material		Cu	Cu	Cu	Cu	Cu	Cu	Cu	Cu

Tap-off Plugs

Tap-off point	Offset every 0.5 m, 1 m or 0.5 m on each side; max. 16 A
Tap-off plug	3- and 5-pole; with or without permanently attached cable; with or without fuse holders for 8.5 mm x 31.5 mm; type gG (IEC) and type gL (VDE) fast cylinder fuses. All tap-off plugs are of utilization category AC-20B to IEC/EN 60 947-3. The PE operates as an early-make contact during connection, and as a late-break contact during removal of the tap-off plug.

Terminal Capacities

Designation	Type	L1, L2, L3		N		PE	
		Min mm ²	Max mm ²	Min mm ²	Max mm ²	Min mm ²	Max mm ²
Entry Feeder Unit (Complete with end cap)	CD-K-...-EA	2.5	6 (f)	2.5	6 (f)	2.5	6 (f)
			10 (st, so)		10 (st, so)		10 (st, so)
Entry Feeder Unit	CD-K-...-EE	2.5	6(f)	2.5	6(f)	2.5	6(f)
			10 (st, so)		10 (st, so)		10 (st, so)

Notes so = solid, st = stranded, f = flexible with ferrule

Suspension Bracket	CD-B
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MV-R/MB



MV-R



LV-S



SC-R

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