

EKL medium/premium ECT connection technology



- Simple and fast installation
- Low stock levels needed (because it can be used as connection and splice)
- High chemical resistance, for almost all industrial chemicals and solvents

The EKL Connection Technology is a connection system for EKL medium and EKL premium for use in potentially explosive atmospheres. Depending on the design, the ECT connection technology may be used to connect a cold lead or to connect two heating cables. Butt connectors, which ensure a reliable and permanent connection, are used for the electrical connection of the heating wire and the protective braid. Using pre-assembled cold leads and our connection technology, complete heating circuits can be constructed quickly and flexibly.

Explosion protection

Marking	Ex II 2G Ex eb IIC Gb Ex II 2D Ex tb IIIC Db
Certification	BVS 16 ATEX E018 U IECEX BVS 16.0014 U
Other approvals and certificates, see bartec.com	

Technical data

Nominal voltage	750 V
Service temperature	-60 °C to +200 °C
Protection	IP 66 (EN/IEC 60079-0)
Dimensions (length/Ø)	ECT35 176 mm/35 mm ECT45 212 mm/45 mm

Type	Max. rated current	Max. cable cross section (mm ²)	External diameter conductor (mm)
ECT35-32	32 A	2.5	3.2 to 6.3
ECT35-54	54 A	6	3.2 to 7.9
ECT45-73*	73 A	10	4.6 to 9.4
ECT45-98*	98 A	16	6.2 to 11.0
ECT45-129*	129 A	25	6.2 to 12.4

Ordering information

ECT35-32-xx	Heating cable connection and splice 7.2 Ω/km to 8000 Ω/km	27-5A31-1222
ECT35-54-xx	Heating cable connection and splice 2.9 Ω/km to 100 Ω/km	27-5A32-1232
ECT45-73-FD	Heating cable connection 1.71 Ω/km with 7.2 Ω/km	27-5A33-FD00
ECT45-73-FE	Heating cable connection 1.71 Ω/km with 4.4 or 2.9 Ω/km	27-5A34-FE00
ECT45-98-GE	Heating cable connection 1.08 Ω/km with 4.4 or 2.9 Ω/km	27-5A36-GE00
ECT45-98-GF	Heating cable connection 1.08 Ω/km with 1.71 Ω/km	27-5A37-GF00
ECT45-129-HE	Heating cable connection 0.8 Ω/km with 4.4 or 2.9 Ω/km	27-5A3A-HE00
ECT45-129-HF	Heating cable connection 0.8 Ω/km with 1.71 Ω/km	27-5A3B-HF00
ECT45-129-HG	Heating cable connection 0.8 Ω/km with 1.08 Ω/km	27-5A3C-HG00

Accessories

Spare parts box ECT35	Seals, butt connector, thrust washer	05-0091-0255
Spare parts box ECT45	Seals, butt connector, thrust washer	05-0091-0256
Crimp set EKL	Crimping tool with crimping dies 1.5 to 10 mm ² and 16 to 25 mm ²	03-5545-0002

Cold lead**

2.5 mm ²	Length 1.2 m cable gland M20/max. 32 A	05-0020-0530
6 mm ²	Length 1.2 m cable gland M20/max. 54 A	05-0020-0553
10 mm ²	Length 1.2 m cable gland M20/max. 73 A	05-0020-0556
16 mm ²	Length 1.2 m cable gland M20/max. 98 A	05-0020-0557
25 mm ²	Length 1.2 m cable gland M20/max. 129 A	on request

* Heating cable connectors on request

** Technical data not applicable