

Insulation piercing multi-core connectors

The cable ring type connector is specially designed for simple and reliable installation while ensuring maximum safety during life line work. The connectors are suitable for aluminium or copper, for stranded or solid conductors and cables with PVC or XLPE insulation. The connectors exceed requirements according to VDE 0220. The compact design allows installation in reduced size resin filled boxes and in Raychem heat-shrinkable Rayligator joints.



Installation

Ring connectors type HEL

Cable oversheath is removed and the core separators placed between the cores. The two connector halves positioned over the cores and the bolts slightly tightened. Stripped ends of branch cores inserted in the branch channels and the bolts are tightened. The connector halves are closed by tightening the two outer bolts while the contact segments pierce the main cable cores. The outer metal ring is at all times insulated from the life conductors.

Ring connector type SRC4

The installation similar to ring connectors type HEL, but there is no need to strip even the ends of branch cores. All three tightening bolts (1 for main and 2 for branch conductors) with shear head control the optimum torque.

Materials:

- Body: High strength aluminium alloy
- Contact segment: electro tinned brass
- Insulation parts: Glass fibre reinforced polymer
- Bolts: Tinned steel 12.9

Conductors types:

- sm: Sector stranded
- se: Sector solid
- rm: Round stranded
- re: Round solid

Cable ring type connector for 4-core cables

Ordering description	Main conductor		Branch conductor		Dimension outer circle (mm)	Width across flats (mm)	Weight (kg/100pcs)
	rm/sm (mm ²)	re/se (mm ²)	rm/sm (mm ²)	re/se (mm ²)			
HEL-4874-35re	–	35re	6–50	6–70	96	6 / 5	42,4
HEL-4874	35– 70	50– 95	6–50	6–70	96	6 / 5	42,4
HEL-6874	50– 70	70– 95	6–50	6–70	96	6 / 5	42,6
HEL-6875	70– 120	95– 150	6–50	6–70	98,5	6 / 5	42,2
HEL-6876	95– 120	120– 150	6–50	6–70	96	6 / 5	44,6
HEL-6877	95– 120	120– 150	10–95rm/ 35–120sm	16–120re/ 50–150se	142	6 / 6	46,0
HEL-6878	150	185se	6–70	6–70	115	6 / 5	60,0
HEL-6879	185	240se	6–70	6–70	124	8 / 5	69,4
HEL-6880	240sm	–	6–70	6–70	124	8 / 5	69,4
HEL-6880.1	185–240sm	185–240se	6–70	6–70	124	8 / 5	70,0
HEL-5876	120rm	120–150	6–50	6–70	96	6 / 5	46,0
HEL-5877	–	120–150	10–95rm/ 35–120sm	16–120re/ 50–150se	142	6 / 6	46,0

Cable ring type connector with shear head bolts, piercing insulation of main and branch 4-core cables

Ordering description	Main conductor		Branch conductor		Dimension outer circle (mm)	Width across flats (mm)	Weight (kg/100pcs)
	rm/sm (mm ²)	re/se (mm ²)	rm/sm (mm ²)	re/se (mm ²)			
SRC4-70/150-10/70	70-120	70-150*	10-50	10-70*	105	13	38,0

* For Cu main conductor 70-120 mm² sm, branch conductor 10-50 mm² re/se.

Cable ring type connector for 3,5-core cables with reduced cross section of neutral conductor

Ordering description	Main phase conductor		neutral conductor		Branch conductor		Dimension outer circle (mm)	Width across flats (mm)	Weight (kg/100pcs)
	rm/sm (mm ²)	re/se (mm ²)	rm/sm (mm ²)	re/se (mm ²)	rm/sm (mm ²)	re/se (mm ²)			
HEL-4874.3	50sm	–	25sm	–	6–50	6–70	96	6 / 5	42,4
HEL-4875.3	70– 120sm	95– 150se	35– 70sm	50– 95se	6–50	6–70	98,5	6 / 5	42,2
HEL-6878.3	150sm	–	70sm	70	6–50*	6–50	115	6 / 5	63,8
HEL-6879.3	185sm	–	–	95re	6–50*	6–50	124	8 / 5	73,2
HEL-6880.3-ARG	185–240sm	–	95– 120sm	–	6–50*	6–50	124	8 / 5	73,0
HEL-6880.3-RE	240sm	–	–	120re	6–50*	6–50	124	8 / 5	72,2
HEL-6880.3-SM	240sm	–	120sm	–	6–50*	6–50	124	8 / 5	72,2

* Needs to be rounded for 50 mm² sm.