

ES-BL-OZ/JZ

Cables for intrinsically safe electric circuits

**Technical Data:**

- **Conductor material** Copper bare
- **Conductor Class** Class 5 acc. to DIN VDE 0295 or IEC 60228
- **Core Insulation** PVC
- **Core identification** DIN VDE 0293: Black cores with consecutive white numerals
- **Stranding** Cores twisted in layers
- **Outer sheath** PVC
- **Sheath colour** Blue (RAL 5015)
- **Rated voltage [V]** 300 / 500
- **Testing voltage [V]** 3000
- **Insulation resistance** $\geq 20 \text{ M}\Omega \times \text{km}$
- **Current carrying capacity** DIN VDE (see technical guidance)
- **Min. bending radius fixed [xd]** up to 12mm Ø: 5 x d
 > 12mm Ø: 7 .5
- **Min. bending radius moved [xd]** up to 12mm Ø: 10 x d up to 20mm Ø: 15 x d 20mm Ø: 20
- **Working temp fixed min/max [C]** -30° c up to +80° c
- **Working temp moved min/mac [C]** -5°C up to +70°C
- **Burning behaviour** EC 60332-1-2: flame-retardant and self-extinguishing
- **Approvals** EN 50525-2-51, DIN EN 60079-14

Construction:

- fine strands of plain copper conductor
- stranding as perVDE 0295, class 5
- cores consecutive numbered
- cores twisted in layers
- colour of sheath blue. RAL 5015

Application:

For application in intrinsically safe appendix as control, connecting and data transmission cable in measurement and control technology. Suitable for use in dry and moist rooms, no laying underground. For fixed laying and flexible applications with undefined cable routing and without tensile stress. Largely oil and fuel resistant. Also available without green/yellow protective conductor.

Part Number	No of cores x Cross section	Outer Ø ca. mm	Copper weight kg /100	Weight 100 kg/100	Part Number	No of cores x Cross section	Outer Ø ca. mm	Copper weight kg /100	Weight 100 kg/100
31030075	3 G 0.75	5.80	2.20	5.40	31030150	3 G 1.50	7.00	4.30	8.60
31040075	4 G 0.75	6.60	2.90	6.60	31040150	4 G 1.50	8.00	5.80	11.00
31050075	5 G 0.75	7.50	3.60	8.00	31050150	5 G 1.50	8.80	7.20	14.00
31070075	7 G 0.75	8.10	5.00	11.00	31070150	7 G 1.50	9.90	10.10	18.00
31120075	12 G 0.75	11.20	8.60	17.60	31120150	12 G 1.50	13.60	17.30	33.90
31180075	18 G 0.75	12.00	13.00	26.00	31180150	18 G 1.50	16.40	25.90	51.30
31250075	25 G 0.75	16.70	18.00	37.00	31250150	25 G 1.50	19.40	36.00	69.80
31020075	2 x 0.75 OZ	5.50	1.47	5.00	310020150	2 x 1.50 OZ	6.60	2.90	8.00
310030075	3 x 0.75 OZ	5.70	2.20	6.00	310030150	3 x 1.50 OZ	6.80	4.30	10.50
310040075	4 x 0.75 OZ	6.30	2.90	8.10	31040150 OZ	4 x 1.50 OZ	7.40	5.80	12.50
310050075	5 x 0.75 OZ	6.70	3.68	8.80	310050150	5 x 1.50 OZ	8.10	7.20	13.90
31070075 OZ	7 x 0.75 OZ	7.50	5.20	11.50	31070150 OZ	7 x 1.50 OZ	9.20	10.10	18.40
310120075	12 x 0.75 OZ	9.90	8.82	18.50					
310180075	18 x 0.75 OZ	11.70	13.23	28.20					
310250075	25 x 0.75 OZ	14.30	18.00	39.30					
31030100	3 G 1	6.30	3.00	6.70					
31040100	4 G 1	7.00	3.90	8.30					
31050100	5 G 1	7.80	4.80	10.50					
31070100	7 G 1	8.70	6.70	19.00					
31120100	12 G 1	11.70	11.50	22.50					
31180100	18 G 1	14.30	17.30	35.00					
31250100	25 G 1	17.50	24.00	50.00					
31002010 OZ	2 x 1 OZ	5.80	2.00	5.70					
31030100 OZ	3 x 1 OZ	6.00	2.90	7.30					
31040100 OZ	4 x 1 OZ	6.60	3.80	8.60					
310050100	5 x 1 OZ	7.1	4.94	10.50					
31070100 OZ	7 x 1 OZ	8.10	6.70	14.10					
310120100	12 x 1 OZ	10.5	11.84	23.10					
31018010 OZ	18 x 1 OZ	12.7	17.77	33.10					