



ES-BL-CY-OZ

Screened Cables for intrinsically safe circuits

1

Technical Data:

- **Conductor material** Copper bare
- **Conductor Class** Class 5
- **Core Insulation** PVC
- **Core identification** DIN VDE 0293: Black cores numbered
- **Stranding** Cores twisted in layers
- **Outer sheath** PVC
- **Sheath colour** Blue (RAL 5015)
- **Rated voltage [V]** 300/500
- **Testing voltage [V]** 3000
- **Conductor resistance** DIN VDE 0295 Cl.5 Insulation resistance 20 MΩ x km
- **Current carrying capacity** DIN VDE (see technical guidelines)
- **Min. bending radius fixed [xd]** up to 12mm Ø: 5 x d >12mm Ø: 7.5 > 20mm Ø: 20 x d
- **Min. bending radius moved [xd]** up to 12mm Ø: 10 x d up to 20mm Ø: 15 x d >20mm Ø: 20 x d
- **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** IEC 60332-1: flame-retardant and self-extinguishing
- **Approvals** DIN VDE 0245 and 0250 EC 60079-14 / EN 6D079-14 / VDE 0165-1
- **Construction:**
 - fine strands of plain copper conductor
 - cores consecutive numbered without green/yellow protective conductor
 - stranding as per VDE 0295, class 5
 - screen of tinned copper wire
 - 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 for lossless data and signal transmission. 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.

Part Number	No of cores x Cross section	Outer Ø ca. mm	Copper weight kg /100	Weight 100 kg/100
32020050	2 x 0.50	5.80	2.30	3.60
32030050	3 x 0.50	6.50	3.50	4.70
32040050	4 x 0.50	7.10	4.50	6.30
32050050	5 x 0.50	7.70	5.70	6.70
32070050	7 x 0.50	8.30	8.00	8.40
32120050	12 x 0.50	10.80	11.20	15.60
32020075	2 x 0.75	6.20	4.30	5.60
32030075	3 x 0.75	6.50	5.20	7.00
32040075	4 x 0.75	7.00	6.10	9.50
32050075	5 x 0.75	7.70	7.20	13.00
32070075	7 x 0.75	8.40	9.00	17.00
32120075	12 x 0.75	11.00	14.00	23.40
32180075	18 x 0.75	12.70	21.10	31.50
32250075	25 x 0.75	14.80	28.00	43.50
32020100	2 x 1	6.50	5.20	8.40
32030100	3 x 1	6.90	6.30	11.00
32040100	4 x 1	7.30	7.50	13.00
32050100	5 x 1	8.10	9.00	15.60
32070100	7 x 1	9.00	11.20	19.20
32120100	12 x 1	11.50	18.50	28.50
32180100	18 x 1	13.90	26.80	39.50
32250100	25 x 1	15.90	35.40	65.60

Part Number	No of cores x Cross section	Outer Ø ca. mm	Copper weight kg /100	Weight 100 kg/100
32180150	18 x 1.5	15.60	37.30	55.30
32250150	25 x 1.5	17.90	53.00	73.40
32020150	2 x 1.50	7.10	6.50	9.70
32030150	3 x 1.50	7.50	8.20	12.50
32040150	4 x 1.50	8.20	10.00	16.50
32050150	5 x 1.50	9.00	12.00	19.30
32070150	7 x 1.50	10.00	15.90	24.50
32120150	12 x 1.50	13.00	27.00	36.50