Earth Conductors ESUY and ESY

Technical data

ESUY (H00 V-D)

- Earthing cable of braid wires over core strands in adapted to DIN VDE 0283 part 3 and EN 61138

ESY

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ESUY (H00 V-D) and ESY

- **Conductor resistance** at 20°C according DIN VDE 0283 part 3
- **Temperature range** -5°C to +70°C
- **Test voltage** 2000 V
- **Spark test** (during winding)
  16 mm² to 35 mm² = 5000 V
  50 mm² to 70 mm² = 6000 V
  95 mm² to 240 mm² = 8000 V
- **Insulation resistance** min. 20 MOhm x km
- **Minimal bending radius** 12x outer Ø

Cable structure

ESUY (H00V-D)

- Bare copper-conductor, extra fine-wire, high flexible
- Braiding of bare copper wires over the stranded copper conductor
- Outer sheath of PVC compound type TM2 according DIN VDE 0207-363-4-1/DIN EN 50363-4-1
- Sheath colour transparent (glass clear)

ESY

- Bare Cu-conductor, fine-wire
- Copper conductors of stranded wires
- Outer sheath of PVC compound type TM2 according DIN VDE 0207-363-4-1/DIN EN 50363-4-1
- Sheath colour transparent (glass clear)

Properties

- For these cable types no nominal voltages are mentioned, as these are: only used for earthing performances
- For further requirements see European Norm EN 61230 and DIN VDE 0683 part 100: "Live working - Portable equipment for earthing and earthing"

Note

- AWG sizes are approximate equivalent values. The actual cross-section is in mm².

Application

ESUY (H00V-D)

These high flexible earth conductors are used for earthing of portable equipment and short-circuiting. These cables specially perform a protective function in repair live working of high voltage power supply company as EVU, in railway systems, failing current equipment, alternating current systems and in networks of transmission and distribution. Because of that these are designated as safety cables.

ESY

These earthing cables offer special characteristics with low weights, high flexibility to a wide temperature range and the behavior in high temperature. The protective sheath over conductor assures the essential function for protection against the mechanical and chemical stresses.

ESUY (H00V-D), high flexible

Part no.	Cross-section mm²	Cond. make-up n x wire Ø	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
28930	16	4200 x 0,07	8,3	194,0	230,0	6
28931	25	3192 x 0,1	9,5	280,0	335,0	4
28932	35	4480 x 0,1	11,2	415,0	475,0	2
28933	50	6383 x 0,1	13,2	585,0	670,0	1
28934	70	8918 x 0,1	15,6	820,0	905,0	2/0
28935	95	12100 x 0,1	17,4	1090,0	1220,0	3/0
28936	120	15300 x 0,1	19,8	1360,0	1505,0	4/0
28937	150	19152 x 0,1	23,4	1650,0	1940,0	300 kcmil
28938	185	23580 x 0,1	26,6	2150,0	2390,0	350 kcmil
28939	240	30600 x 0,1	30,2	2750,0	3090,0	500 kcmil

ESY, flexible

Part no.	Cross-section mm²	Cond. make-up n x wire Ø	Outer Ø approx. mm	Cop. weight kg / km	Weight approx. kg / km	AWG-No.
28940	16	525 x 0,2	8,4	155,0	185,0	6
28941	25	798 x 0,2	9,8	240,0	270,0	4
28942	35	1120 x 0,2	11,4	336,0	390,0	2
28943	50	1617 x 0,2	13,8	480,0	575,0	1
28944	70	2254 x 0,2	16,4	672,0	810,0	2/0
28945	95	3087 x 0,2	18,2	912,0	1080,0	3/0
28946	120	3822 x 0,2	20,1	1152,0	1320,0	4/0
28947	150	4802 x 0,2	23,0	1440,0	1680,0	300 kcmil

Dimensions and specifications may be changed without prior notice. (RK01)

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