



ÖLFLEX® DC ESS SC

Cable best designed for ESS satisfying DC 1500V Standards According to EN50618



Benefits

- Easy installation due to flexible design
- Minimises damage to buildings and equipment caused by the formation of toxic acid fumes in fires
- Reduction of flame propagation, density and toxicity of smoke gases in event of fire

Application range

- Internal and External wiring within Energy Storage System(ESS)
- For outdoor applications

Product features

- Fire behaviour:
 - Halogen-free (IEC 60754-1)
 - No corrosive gases (IEC 60754-2)
 - Low smoke density (IEC 61034-2)
 - Low toxicity (EN 50305)
 - Flame retardant (IEC 60332-1-2)
- No flame propagation according to IEC 60332-3-24, IEC 60332-3-25
- Oil resistant acc. IEC 60227-1 (ST9) and EN 50264-1 (EM 104)
- Ozone resistant according to EN 50396
- UV resistant according to ISO 4892-2

Norm references / Approvals

- Cable design according to EN 50618

Product Make-up

- Fine wire strands of tinned copper
- Core insulation: Halogen-free flame retardant cross-linked polyolefin compound
- Outer sheath: Special halogen-free flame retardant cross-linked polyolefin compound
- Outer sheath colour: Black



Info

- ESS FLEX is a halogen free, highly flame retardant DC power cable for use within ESS system
- Improved characteristics in the event of a fire

Technical data



Conductor stranding

Fine wire strands of tinned copper accordance to VDE 0295 Class 5 / IEC 60228 Class 5



Minimum bending radius

Occasional flexing: 15 x outer diameter, Fixed installation: 5 x outer diameter



Rated voltage

DC 1500V



Test voltage

AC 6500 V



Temperature range

Fixed installation: -40°C to +120°C

Article number	Number of cores and mm ² per conductor	Outer diameter [mm]	Copper index (kg/km)	Weight (kg/km)
ÖLFLEX® DC ESS SC				
85153001	1x1.5	4.6	14	20
85153002	1x2.5	5	24	30
85153003	1x4	5.4	38	46
85153004	1x6	6	58	66
85153005	1x10	7.2	96	106
85153006	1x16	8.7	154	174
85153007	1x25	10.6	240	271
85153008	1x35	12.2	336	376
85153009	1x50	14.4	480	524
85153010	1x70	16.4	672	728
85153011	1x95	18.4	912	981
85153012	1x120	20.2	1152	1233
85153013	1x150	22.4	1440	1541
85153014	1x185	25.2	1776	1904
85153015	1x240	28.6	2304	2446
85153016	1x300	32	2880	3050
85153017	1x400	36	3840	4047

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