

AHV SERIES

High Current Flexible Rubber SDI Cable 1.8/3.3kV 90°C



APPLICATIONS:

- High Current Capacity** Suitable for high current applications.
- Marine** Flexible tinned copper cable for installation in pleasure craft and other marine applications.
- Power** Switchboards, flexible droppers from busbars, transformers, load banks or other equipment requiring fixed or flexible cable.
- Pumping** Suitable for permanent submersion to 100 metres.
- Generator Sets** As leads for temporary power supplies.
- Telecommunications** Where finely stranded large cross section cables are required for minimal volt drop.
- Transport** For use in trains and buses where earth-fault-proof routing is required.

PRODUCT FEATURES:

- ▶ NSGAFOEU type
- ▶ Tinned fine stranded copper conductor
- ▶ High current capacity
- ▶ UV stabilised
- ▶ Flame retardant
- ▶ Water and moisture resistant
- ▶ Good dielectric properties
- ▶ Resistant to environmental factors such as oxidation, ozone and sunlight
- ▶ Very good behaviour to variations of outdoor temperatures
- ▶ Good tensile strength, tearing strength and abrasion resistance
- ▶ Good elongation at break
- ▶ Heat, oil and chemical resistant (*See Technical Section*)

See over for full product table ▶

CONSTRUCTION:




- Conductor** Annealed tinned copper stranded extreme flexibility (Class 5).
- Insulation** RE110.
- Sheath** PCP rubber.

CHARACTERISTICS:

- Operating Temperature Range** Fixed -40°C to 90°C / Flexing -20°C to 90°C.
- Maximum Conductor Temperature** 90°C (Current ratings are based on 30°C air temp. See technical section for de-rating factors).
- Rated Voltage** U_o/U 1.8/3.3kV AC (2.75-5.4kV DC).
- Max AC Operating Voltage** U_o 2.1kV.
- Minimum Bending Radius** Fixed 6 x cable diameter / Flexing 8 x cable diameter.
- Sheath Colour** Black.
- Relevant Standards** AS/NZS 1125, DIN VDE 0250-602, IEC 60332-2, AS/NZS 3008.1.1:2009, AS1429, **RoHS** Compliant.

FLEXIBLE SINGLE CORE CABLES

AHV SERIES continued

Code	No. of Cores x Size (mm ²)	Approx. Overall Diameter (mm)	Approx. Weight (Kg/Km)	Nominal Amps un-enclosed protected from sun @ 30°C fixed installation 3 Phase			3 Phase Volt Drop @50Hz / MAX. Conductor Temp: 110°C (Mv/Am)
				Spaced 	Spaced from Surface 	Touching 	
AHV001.5B	1 x 1.5	5.8	47	33	29	28	31.900
AHV002.5B	1 x 2.5	6.3	59	45	39	36	17.400
AHV004.0B	1 x 4.0	6.8	77	59	51	48	10.800
AHV006.0B	1 x 6.0	7.3	97	75	65	61	7.230
AHV010B	1 x 10.0	8.8	153	106	91	86	4.300
AHV016B	1 x 16.0	10.2	214	139	120	112	2.710
AHV025B	1 x 25.0	12.2	324	185	159	149	1.720
AHV035B	1 x 35.0	13.3	421	229	197	184	1.250
AHV050B	1 x 50.0	14.7	564	289	249	232	0.929
AHV070B	1 x 70.0	16.6	758	364	312	292	0.657
AHV095B	1 x 95.0	18.9	995	439	378	352	0.491
AHV120B	1 x 120.0	21.0	1253	521	447	417	0.403
AHV150B	1 x 150.0	23.0	1540	601	516	482	0.344
AHV185B	1 x 185.0	25.0	1862	689	592	552	0.296
AHV240B	1 x 240.0	28.3	2428	829	712	663	0.252
AHV300B	1 x 300.0	31.3	3006	958	820	764	0.227
AHV400B	1 x 400.0	35.3	3898	1155	982	915	0.208
AHV500B	1 x 500.0	39.5	5016	1348	1138	1059	0.195

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