FLEXIBLE SINGLE CORE CABLES

AHV SERIES

High Current Flexible Rubber SDI Cable 1.9/3.3kV 110°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 200 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:

- NSGAFOU 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 & 6).
Insulation EPR rubber 110°C, R110 type 3G13.
Sheath CPE rubber.

CHARACTERISTICS:

Operating Temperature Range Fixed -40°C to 110°C / Flexing -20°C to 90°C.
Maximum Conductor Temperature 110°C (Current ratings are based on 30°C air temp. See technical section for de-rating factors).
Rated Voltage Uo/U 1.9/3.3kV AC (2.75-5.4kV DC).
Max AC Operating Voltage Uo 2.1kV.
Minimum Bending Radius Fixed 4 x cable diameter / Flexing 6 x cable diameter.
Sheath Colour Black.
Relevant Standards AS/NZS 1125, DIN VDE 0250-602, IEC 60332-1, VDE 0207, VDE 0295, RoHS Compliant.

AHV SERIES continued

Code	No. of Cores x Size (mm²)	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	6.5	65	33	29	28	31.900
AHV002.5B	1 x 2.5	7.0	80	45	39	36	17.400
AHV004.0B	1 x 4.0	7.5	95	59	51	48	10.800
AHV006.0B	1 x 6.0	8.5	120	75	65	61	7.230
AHV010B	1 x 10.0	10.0	180	106	91	86	4.300
AHV016B	1 x 16.0	11.0	250	139	120	112	2.710
AHV025B	1 x 25.0	13.0	350	185	159	149	1.720
AHV035B	1 x 35.0	14.0	455	229	197	184	1.250
AHV050B	1 x 50.0	15.5	610	289	249	232	0.929
AHV070B	1 x 70.0	17.0	805	364	312	292	0.657
AHV095B	1 x 95.0	19.5	1055	439	378	352	0.491
AHV120B	1 x 120.0	21.5	1350	521	447	417	0.403
AHV150B	1 x 150.0	23.0	1655	601	516	482	0.344
AHV185B	1 x 185.0	25.0	1975	689	592	552	0.296
AHV240B	1 x 240.0	28.0	2550	829	712	663	0.252
AHV300B	1 x 300.0	32.5	3230	958	820	764	0.227
AHV400B	1 x 400.0	37.7	4222	1155	982	915	0.208
AHV500B	1 x 500.0	43.2	5200	1348	1138	1059	0.195