DKSH Cables & Electrical

RALOS RB4G50+4X2.5SCR Screened Rubber Cable

Application

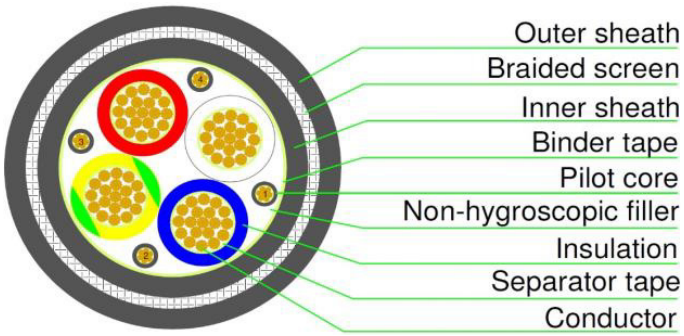
Designed for heavy duty flexible cord applications where an electric screen is required. Suitable for motor mains cable including small submersible pumps.
****AD8 permanent submersion to 500m depth*

Rated Voltage(V)	0.6/1kV
Rated Temperature(℃)	-25 ~ 90℃
Reference specification	AS/NZS 5000.1, AS/NZS 1125 AS/NZS 3808, AS/NZS 1660 IEC 60332-1-2

Cable Construction

	Power (including earth) cores	Pilot cores
No. of Cores	4	4
Conductor		
Material	Tinned annealed copper wire	
Class of Conductor	Class 5	
Conductor type	Stranded circular conductor	
Cross-Sectional Area(mm²)	50	2.5
Approx. Conductor Dia.(mm)	9.6	2.04
Separator tape		
Material	Non-hygroscopic tape 100% wrapping over the conductor	
Insulation		
Material	EPR	
Nom. Thickness(mm)	1.4	1.0
Approx. Dia. over insulation(mm)	13.0	4.2
Cable assembly		
	All the power cores and pilot cores are assembled together	
Filler		
Material	Non-hygroscopic PP yarn Suitable filler may be applied between the cores to form a circular cross-section	
Binder tape		
Material	Non-hygroscopic tape 100% wrapping over the cable assembly, maybe embedded in EPR sheath	
Inner sheath		
Material	EPR	
Nom. Thickness(mm)	1.2	
Approx. Dia. over bedding(mm)	34.7	
Braided screen		
Material	Tinned annealed copper wire	
Min. braided coverage(%)	80%	
Approx. Dia. over braid(mm)	35.7	
Outer sheath		
Material	CPE	
Nom. Thickness(mm)	2.0	
Min. Thickness(mm)	1.40	
Approx. Dia. of cable(mm)	41.0	
O.D. tolerance(%)	**± 8**	
Approx. weight of cable(kg/km)	2940.0	

Part Number: RB4G50+4X2.5SCR



Specification

SCREENED NEOPRENE CABLE : 4G x 50 + 4Pt 2.5 mm²
TC/EPR/EPR/TCWB/CPE FLEXIBLE CABLE

Color

Insulation	
Power (including earth) cores	Red, White, Blue, Green/yellow
Pilot cores	Black with white numbering(1~4)
Inner sheath	Black
Outer sheath	Black

Performance

Electrical characteristics	Power (including earth) cores	Pilot cores
1. Max. D.C. resistance at 20℃(Ω/km)	0.393	8.21
2. Max. A.C. resistance at 90℃(Ω/km)	0.501	10.5
3. Min. Insulation Resistance at 20℃(MΩ•km)	100	
4. Spark test A.C. voltage value(kV)	10	6
5. A.C. high voltage test for 5min(kV)	3.5	
6. Current carrying capacities(A)		
a) in air	170	
b) direct buried	204	
c) buried in duct	155	
*Ambient temperature: 40℃; Ground temperature: 25℃		
Burying depth: 0.5 m; Soil resistivity: 1.2℃•m/w		
7. Max. conductor temperature of 5s Short-circuit(℃)	250	
8. Max. 1s Short-circuit rating(kA)	7.1500	
9. Reactance at 50Hz(Ω/km)	0.0832	
Physical characteristics		
1. Min. bending radius(mm)		
a) during installation	410	
b) after installation	328	
2. Max. pulling tension for conductor(kN)	14.700	
3. Construction test	AS/NZS 5000.1	
4. Flame retardant test	IEC 60332-1-2	

NOTE: The information contained in this data sheet is subject to normal manufacturing tolerance, specifications are subject to change without notice.

Certificate of Compliance

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Type of cable	TC/EPR/EPR/TCWB/CPE NEOPRENE CABLE
Size of cable	4 C x 50 mm^2 + 4Pt 2.5 mm^2
Rated voltage	0.6/1 kV

We confirm that the above mentioned cable was produced according to the specified standards for those tests conducted.

i) AS/NZS 5000.1

ii) AS/NZS 1125 Class 5

Note: This verification is a part of the full test report and should be read in conjuction with it.

Approved by: