

RALOS RB4G35+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.

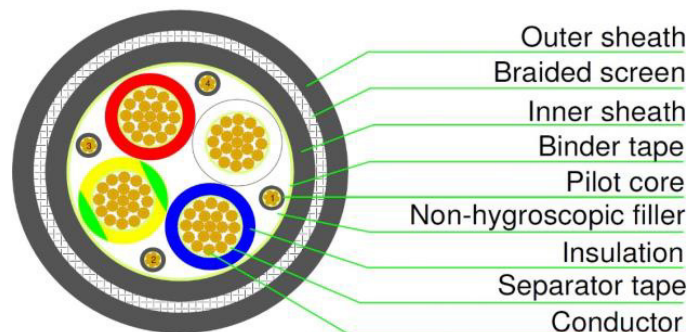
****AD8 permanent submersion to 500m depth**

| | |
|--------------------------------|---|
| Rated Voltage(V) | 0.6/1kV |
| Rated Temperature(°C) | -25 ~ 90°C |
| 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(mm ²) | 35 | 2.5 |
| Approx. Conductor Dia.(mm) | 8.3 | 2.04 |
| Separator tape | | |
| Material | Non-hygroscopic tape | |
| | 100% wrapping over the conductor | |
| Insulation | | |
| Material | EPR | |
| Nom. Thickness(mm) | 1.2 | 1.0 |
| Approx. Dia. over insulation(mm) | 11.2 | 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) | 1.0 | |
| Approx. Dia. over bedding(mm) | 29.8 | |
| Braided screen | | |
| Material | Tinned annealed copper wire | |
| Min. braided coverage(%) | 80% | |
| Approx. Dia. over braid(mm) | 30.8 | |
| Outer sheath | | |
| Material | CPE | |
| Nom. Thickness(mm) | 1.8 | |
| Min. Thickness(mm) | 1.24 | |
| Approx. Dia. of cable(mm) | 35.5 | |
| O.D. tolerance(%) | ± 8 | |
| Approx. weight of cable(kg/km) | 2160.0 | |

Part Number: RB4G35+4X2.5SCR



Specification

SCREENED NEOPRENE CABLE : 4G x 35 + 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°C(Ω/km) | 0.565 | 8.21 |
| 2. Max. A.C. resistance at 90°C(Ω/km) | 0.720 | 10.5 |
| 3. Min. Insulation Resistance at 20°C(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 | | 135 |
| b) direct buried | | 172 |
| c) buried in duct | | 127 |
| *Ambient temperature: 40°C; Ground temperature: 25°C Burying depth: 0.5 m; Soil resistivity: 1.2°C•m/w | | |
| 7. Max. conductor temperature of 5s Short-circuit(°C) | | 250 |
| 8. Max. 1s Short-circuit rating(kA) | | 5.0050 |
| 9. Reactance at 50Hz(Ω/km) | | 0.0839 |
| Physical characteristics | | |
| 1. Min. bending radius(mm) | | |
| a) during installation | | 355 |
| b) after installation | | 284 |
| 2. Max. pulling tension for conductor(kN) | | 10.500 |
| 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

DKSH Australia Pty. Ltd.

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Type of cable TC/EPR/EPR/TCWB/CPE NEOPRENE CABLE
Size of cable 4 C x 35 mm² + 4Pt 2.5 mm²
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 conjunction with it.

Approved by:

