



## SR Series

- ◆ Load life of 2000 hours at 85°C
- ◆ Standard series for general purpose
- ◆ Applications for TV, video, audio, office and home appliances, etc.



Technical drawing of the cable head assembly. The side view shows a cable with a diameter of  $\varnothing D$  and a length of  $L + 2(\text{max})$ . The cable is terminated with a Vinyl Sleeve and Rubber and Seal. The cable is made of  $d \pm 0.05$  CP wire. The dimensions are: 15(min) for the sleeve length, 5(min) for the seal length, and  $D + 0.5(\text{max})$  for the outer diameter of the sleeve. The cross-sectional view shows the cable with a diameter of  $\varnothing D$  and a length of  $L + 2(\text{max})$ . The cable is terminated with a Vinyl Sleeve and Rubber and Seal. The cable is made of  $d \pm 0.05$  CP wire. The dimensions are: 15(min) for the sleeve length, 5(min) for the seal length, and  $D + 0.5(\text{max})$  for the outer diameter of the sleeve.

| mm |     |     |     |     |    |     |    |      |    |      |
|----|-----|-----|-----|-----|----|-----|----|------|----|------|
| D  | 5   | 6.3 | 8   | 10  | 13 | 16  | 18 | 20   | 22 | 25   |
| F  | 2.0 | 2.5 | 3.5 | 5.0 |    | 7.5 |    | 10.5 |    | 12.5 |
| d  | 0.5 |     | 0.6 |     |    | 0.8 |    |      | 1  |      |

| Items                                  | Characteristics                                                                               |                                   |      |      |      |      |      |      |                                                   |      |      |      |      |      |      |      |
|----------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------|------|------|------|------|------|------|---------------------------------------------------|------|------|------|------|------|------|------|
| Capacitance Tolerance<br>(120Hz, 25°C) | ± 20% (M)                                                                                     |                                   |      |      |      |      |      |      |                                                   |      |      |      |      |      |      |      |
| Rated Working Voltage Range            | 6.3 ~ 100Vdc                                                                                  |                                   |      |      |      |      |      |      | 160 ~ 450Vdc                                      |      |      |      |      |      |      |      |
| Operation Temperature                  | -40°C ~ +85°C                                                                                 |                                   |      |      |      |      |      |      | -25°C ~ +85°C                                     |      |      |      |      |      |      |      |
| Leakage Current (25°C)                 | (After 2 minutes applying the DC working voltage)                                             |                                   |      |      |      |      |      |      | (After 5 minutes applying the DC working voltage) |      |      |      |      |      |      |      |
|                                        | I ≤ 0.01CV or 3 (μA)                                                                          |                                   |      |      |      |      |      |      | I ≤ 0.03CV + 10 (μA)                              |      |      |      |      |      |      |      |
|                                        | ◆ I : Leakage Current (μA)      ◆ C : Rated Capacitance (μF)      ◆ V : Working Voltage (V)   |                                   |      |      |      |      |      |      |                                                   |      |      |      |      |      |      |      |
| Surge Voltage (25°C)                   | W.V.                                                                                          | 6.3                               | 10   | 16   | 25   | 35   | 40   | 50   | 63                                                | 100  | 160  | 200  | 250  | 350  | 400  | 450  |
|                                        | S.V.                                                                                          | 8                                 | 13   | 20   | 32   | 44   | 50   | 63   | 79                                                | 125  | 200  | 250  | 300  | 400  | 450  | 500  |
| Dissipation Factor (120Hz, 25°C)       | W.V.                                                                                          | 6.3                               | 10   | 16   | 25   | 35   | 40   | 50   | 63                                                | 100  | 160  | 200  | 250  | 350  | 400  | 450  |
|                                        | tan δ                                                                                         | 0.25                              | 0.20 | 0.17 | 0.15 | 0.12 | 0.12 | 0.10 | 0.10                                              | 0.10 | 0.15 | 0.15 | 0.15 | 0.20 | 0.20 | 0.20 |
|                                        | ◆ For capacitance exceeding 1000 μF, add 0.02 per increment of 1000 μF                        |                                   |      |      |      |      |      |      |                                                   |      |      |      |      |      |      |      |
| Temperature Characteristics            | W.V.                                                                                          | 6.3                               | 10   | 16   | 25   | 35   | 40   | 50   | 63                                                | 100  | 160  | 200  | 250  | 350  | 400  | 450  |
|                                        | - 25°C / + 25°C                                                                               | 4                                 | 4    | 3    | 3    | 2    | 2    | 2    | 2                                                 | 2    | 3    | 3    | 3    | 6    | 6    | 6    |
|                                        | - 40°C / + 25°C                                                                               | 10                                | 8    | 6    | 4    | 3    | 3    | 3    | 3                                                 | 3    | 4    | 4    | 4    | 6    | 6    | 6    |
|                                        | ◆ Impedance ratio at 120Hz                                                                    |                                   |      |      |      |      |      |      |                                                   |      |      |      |      |      |      |      |
| Load Test                              | After 2000 hours application of WV at +85°C, the capacitor shall meet the following limits:   |                                   |      |      |      |      |      |      |                                                   |      |      |      |      |      |      |      |
|                                        | Capacitance Change                                                                            | ≤ ± 20% of initial value          |      |      |      |      |      |      |                                                   |      |      |      |      |      |      |      |
|                                        | tan δ                                                                                         | ≤ 150% of initial specified value |      |      |      |      |      |      |                                                   |      |      |      |      |      |      |      |
|                                        | Leakage Current                                                                               | ≤ initial specified value         |      |      |      |      |      |      |                                                   |      |      |      |      |      |      |      |
| Shelf Test                             | After 1000 hours, no voltage applied at +85°C, the capacitor shall meet the following limits: |                                   |      |      |      |      |      |      |                                                   |      |      |      |      |      |      |      |
|                                        | Capacitance Change                                                                            | ≤ ± 20% of initial value          |      |      |      |      |      |      |                                                   |      |      |      |      |      |      |      |
|                                        | tan δ                                                                                         | ≤ 150% of initial specified value |      |      |      |      |      |      |                                                   |      |      |      |      |      |      |      |
|                                        | Leakage Current                                                                               | ≤ 200% of initial specified value |      |      |      |      |      |      |                                                   |      |      |      |      |      |      |      |

