

RGL and SML Low noise cables

-65°C/+200°C

Low noise cable

| | |
|----------------------|--|
| Flame retardant | IEC 60332-1-2 UL 1581 VW-1 |
| Smoke generation | IEC 61034-2 |
| Toxicity | IEC 60754-2 |
| Frequency range | Up to 2.5 GHz |
| Screening efficiency | (single braid) -40 dB (double braid) -70 dB |
| Velocity propagation | 70 % |

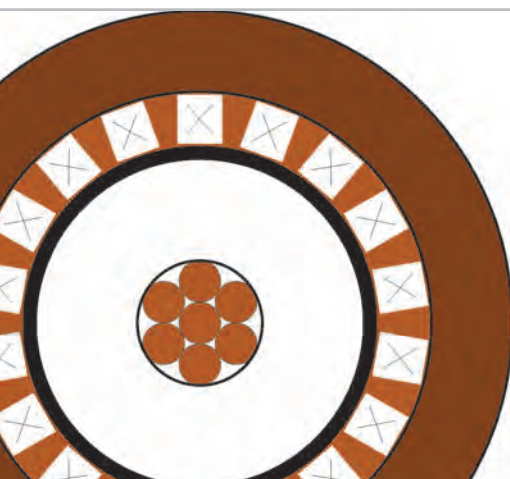
Construction

| | | | | |
|-------------|---|------------|---|--------------------|
| Conductor | Silver Plated Copper (SPC) Silver Plated Copper Covered Steel (SCCS) Silver Plated High Strength Copper Alloy (HSA) | Dielectric | PTFE with low-noise carbon dispersion layer | |
| Shield | Braid of Silver Plated Copper (S) | Sheath | RGL SML | FEP or PTFE FEP |
| Core colour | Natural | Sheath | Brown-transparent | |

Applications

For use with piezo-electric sensors as well as other highly sensitive detection or measurement equipment, low noise cables have extremely low microphonic sensitivity due to an integral carbon layer between the dielectric and the screen. Any electrical charge formed by movement or pressure on the cable is rapidly returned to and from the screen, effectively trapping these unwanted signals so that they are unable to interfere with the equipment connected to the cable.

| Description | Construction | | | | | | Electrical | | | MBR | Article Number |
|-------------|--------------------|-------------------------|------------------|------------------------|------------------------|------------|----------------|---------------|-----------|---------------|----------------|
| | conductor material | conductor \varnothing | dielectric LN | shield/s \varnothing | sheath/s \varnothing | weight g/m | V rms V DC | imp. Ω | cap. pF/m | fixed flexing | |
| RGL 179 | SCCS 7x 0.10 | 0.30 | 1.60 LN: 1.62 | S: 2.05 | FEP: 2.54 | 16 | 900 1,800 | 75 | 75 | 20 40 | 30000-179-04 |
| RGL 187 | SCCS 7x 0.10 | 0.30 | 1.60 LN: 1.62 | S: 2.05 | PTFE: 2.69 | 16 | 900 1,800 | 75 | 75 | 20 40 | 30000-187-01 |
| RGL 196 | SCCS 7x 0.10 | 0.30 | 0.89 LN: 0.91 | S: 1.35 | PTFE: 2.00 | 9 | 500 1,000 | 50 | 105 | 20 40 | 30000-196-01 |
| RGL 316 | SCCS 7x 0.18 | 0.51 | 1.56 LN: 1.58 | S: 2.00 | FEP: 2.49 | 15 | 900 1,800 | 50 | 105 | 20 40 | 30000-316-12 |
| RGL 400 | SPC 19x 0.20 | 0.98 | 2.98 LN: 3.00 | S: 3.55 S: 4.10 | FEP: 4.95 | 64 | 1,400 2,800 | 50 | 105 | 30 60 | 31482-005-04 |
| SML 50 | HSA 1x 0.16 | 0.16 | 0.52 LN: 0.54 | S: 0.80 | FEP: 1.00 | 3 | 400 800 | 50 | 105 | 5 10 | 30000-050-01 |



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