

Flexible Wire

Developing

Background

- Wire size is getting bigger due to being higher voltage and larger current in electric vehicles. The mounting space for wire harness is being narrow.

Function

- Flexible wires that can be routing for narrow space

Feature

- Improve 60% flexibility by using flexible insulations
- It has a great environmental resistance and can be mounted anywhere.
- Same production methods as before

Performance/Specification

| Size | Conductor | | | Insulation thickness [mm] | Finished outer diameter [mm] |
|------|---|---------------------|---------------------------------------|---------------------------|------------------------------|
| | Cross-sectional area [mm ²] | Outer diameter [mm] | Conductor resistance [mΩ/m] Max(20°C) | | |
| 30 | 29.03 | 7.8 | 0.647 | 1.3 | 10.4 |
| 40 | 39.73 | 9.1 | 0.473 | 1.4 | 11.9 |
| 50 | 50.43 | 10.1 | 0.368 | 1.5 | 13.1 |
| 70 | 70.29 | 12.0 | 0.259 | 1.5 | 15.0 |
| 95 | 96.27 | 14.0 | 0.196 | 1.6 | 17.2 |