

| Product Type                |                  | Linkmag SF141 FEP                                                                  |                    |                      |
|-----------------------------|------------------|------------------------------------------------------------------------------------|--------------------|----------------------|
| Structure Drawing           |                  |  |                    |                      |
| Structure Characteristics   |                  |                                                                                    |                    |                      |
| Structure                   | Item             | Standard Value                                                                     |                    |                      |
| Inner Conductor             | Material         | Silver Plated Copper                                                               |                    |                      |
|                             | Construction(mm) | 1/0.93                                                                             |                    |                      |
|                             | Nom.Dia(mm)      | 0.93                                                                               |                    |                      |
| Insulation                  | Material         | PTFE                                                                               |                    |                      |
|                             | Nom.Dia(mm)      | 2.98                                                                               |                    |                      |
| Outer Conductor             | Material         | Tinned Copper Wire Braid+Tin Soaked                                                |                    |                      |
|                             | Nom.Dia(mm)      | 3.52                                                                               |                    |                      |
| Jacket                      | Material         | FEP                                                                                |                    |                      |
|                             | Nom.Dia(mm)      | 4.15                                                                               |                    |                      |
| Electrical Characteristics  |                  |                                                                                    |                    |                      |
| Item                        | Standard Value   | Attenuation and Power handling@25℃ and Sea Level                                   |                    |                      |
|                             |                  | Frequency (MHz)                                                                    | Attenuation (dB/m) | Power handling ( w ) |
| Impedance ( Ω )             | 50±2             | 0.5GHz                                                                             | 0.27               | 601                  |
| Capacitance(pF/m)           | 95               | 1.0GHz                                                                             | 0.39               | 425                  |
| Velocity ( % )              | 70               | 2.0GHz                                                                             | 0.58               | 301                  |
| Time Delay(ns/m)            | 4.7              | 3.0GHz                                                                             | 0.73               | 245                  |
| Max Operating Voltage(V)    | 1900             | 5.0GHz                                                                             | 0.99               | 190                  |
|                             |                  | 6.0GHz                                                                             | 1.11               | 174                  |
| Cut-off Frequency(GHz)      | 34               | 10.0GHz                                                                            | 1.52               | 134                  |
|                             |                  | 18.0GHz                                                                            | 2.23               | 100                  |
| Screening Effectiveness(dB) | >100             | 26.5GHz                                                                            | 2.89               | 83                   |
|                             |                  | 33.0GHz                                                                            | 3.36               | 74                   |
| Dependability               |                  |                                                                                    |                    |                      |
| Min Bending Radius/Single   |                  | mm                                                                                 | 8                  |                      |
| Min Bending Radius/Repeated |                  | mm                                                                                 | 40                 |                      |
| Weight                      |                  | kg/M                                                                               | 0.052              |                      |
| Operating Temperature       |                  | ℃                                                                                  | -55+125            |                      |