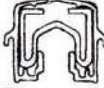


| Safetrack 2<br>SHROUDED CONDUCTOR<br>TECHNICAL DATA SHEET |  |                                                                                                                                                                                    |                         |                         |  |                         |                         |  |                         |
|-----------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|-------------------------|-------------------------------------------------------------------------------------|-------------------------|-------------------------|-------------------------------------------------------------------------------------|-------------------------|
| CONDUCTOR                                                 |  | SF2-60A                                                                                                                                                                                                                                                             | SF2-100A                | SF2-125A                | SF2-160A                                                                            | SF2-250A                | SF2-400A                | SF2-200A                                                                            | SF2-315A                |
| Material                                                  |  | Galvanised Steel                                                                                                                                                                                                                                                    |                         |                         | Copper                                                                              |                         |                         | Aluminium with SS                                                                   |                         |
| Cross Sectional Area (Thickness)                          |  | 53 (0.8)                                                                                                                                                                                                                                                            | 66 (1.0)                | 100(1.6)                | 53 (0.8)                                                                            | 66 (1.0)                | 100(1.6)                | 104                                                                                 | 120                     |
| Impedence milli Ohms/M +35 °C                             |  | 3.55                                                                                                                                                                                                                                                                | 2.86                    | 1.92                    | 0.36                                                                                | 0.30                    | 0.22                    | 0.32                                                                                | 0.29                    |
| DC Resistance milli Ohms/M +35 °C                         |  | 3.52                                                                                                                                                                                                                                                                | 2.84                    | 1.92                    | 0.35                                                                                | 0.27                    | 0.18                    | 0.30                                                                                | 0.26                    |
| Co eff. Of Expansion / °C                                 |  | 1.26 x 10 <sup>-5</sup>                                                                                                                                                                                                                                             | 1.26 x 10 <sup>-5</sup> | 1.26 x 10 <sup>-5</sup> | 1.62 x 10 <sup>-5</sup>                                                             | 1.62 x 10 <sup>-5</sup> | 1.62 x 10 <sup>-5</sup> | 2.38 x 10 <sup>-5</sup>                                                             | 2.38 x 10 <sup>-5</sup> |
| Conductor Rating At +35 °C CDF 100%                       |  | 60A                                                                                                                                                                                                                                                                 | 100A                    | 125A                    | 160A                                                                                | 250A                    | 400A                    | 200                                                                                 | 315                     |
| 80%                                                       |  | 68A                                                                                                                                                                                                                                                                 | 112A                    | 139A                    | 180A                                                                                | 280A                    | 445A                    | 222                                                                                 | 348                     |
| 60%                                                       |  | 80A                                                                                                                                                                                                                                                                 | 130A                    | 162A                    | 210A                                                                                | 325A                    | 520A                    | 258                                                                                 | 405                     |
| 40%                                                       |  | 97A                                                                                                                                                                                                                                                                 | 160A                    | 200A                    | 255A                                                                                | 400A                    | 635A                    | 316                                                                                 | 496                     |
| Conductor Rating at 100% CDF At +35 °C                    |  | 60A                                                                                                                                                                                                                                                                 | 100A                    | 125A                    | 160A                                                                                | 250A                    | 400A                    | 200                                                                                 | 315                     |
| +40 °C                                                    |  | 58A                                                                                                                                                                                                                                                                 | 97A                     | 121A                    | 149A                                                                                | 233A                    | 372A                    | 184                                                                                 | 290                     |
| +45 °C                                                    |  | 56A                                                                                                                                                                                                                                                                 | 94A                     | 117A                    | 140A                                                                                | 218A                    | 348A                    | 162                                                                                 | 255                     |
| +50 °C                                                    |  | 54A                                                                                                                                                                                                                                                                 | 91A                     | 113A                    | 131A                                                                                | 205A                    | 328A                    | 152                                                                                 | 240                     |
| +55 °C                                                    |  | 52A                                                                                                                                                                                                                                                                 | 88A                     | 110A                    | 125A                                                                                | 195A                    | 312A                    | 136                                                                                 | 215                     |
| Standard Conductor Length                                 |  | 4.5 Mtrs                                                                                                                                                                                                                                                            |                         |                         | 4.5 Mtrs                                                                            |                         |                         | 4.5 Mtrs                                                                            |                         |
| Track Configuration straight / curved                     |  | 1500 mm (Horz.only)                                                                                                                                                                                                                                                 |                         |                         | 1500 mm (Horz.only)                                                                 |                         |                         | N.A                                                                                 |                         |
| Bending radius minimum Horizontal                         |  |                                                                                                                                                                                                                                                                     |                         |                         |                                                                                     |                         |                         |                                                                                     |                         |
| Conductor Joint                                           |  | Bolted Type                                                                                                                                                                                                                                                         |                         |                         | Bolted Type                                                                         |                         |                         | Bolted Type                                                                         |                         |
| INSULATION                                                |  |                                                                                                                                                                                                                                                                     |                         |                         |                                                                                     |                         |                         |                                                                                     |                         |
| Standard Insulation                                       |  | PVC                                                                                                                                                                                                                                                                 |                         |                         | PVC                                                                                 |                         |                         | PVC                                                                                 |                         |
| System working Temperature*                               |  | 80 °C                                                                                                                                                                                                                                                               |                         |                         | 80 °C                                                                               |                         |                         | 80 °C                                                                               |                         |
| Flame Test                                                |  | Self Extinguishing                                                                                                                                                                                                                                                  |                         |                         | Self Extinguishing                                                                  |                         |                         | Self Extinguishing                                                                  |                         |
| Insulation Cover                                          |  | RYBG                                                                                                                                                                                                                                                                |                         |                         | RYBG                                                                                |                         |                         | RYBG                                                                                |                         |
| Protection Class (Finger Safe)                            |  | IP21                                                                                                                                                                                                                                                                |                         |                         | IP21                                                                                |                         |                         | IP21                                                                                |                         |
| Maximum System Voltage                                    |  | 500V AC / 600V DC                                                                                                                                                                                                                                                   |                         |                         | 500V AC / 600V DC                                                                   |                         |                         | 500VAC / 600V DC                                                                    |                         |
| High Voltage withstand For 1min Flashover Test            |  | 2.5KV / 7.5KV                                                                                                                                                                                                                                                       |                         |                         | 2.5KV / 7.5KV                                                                       |                         |                         | 2.5KV / 7.5KV                                                                       |                         |
| INSTALLATION                                              |  |                                                                                                                                                                                                                                                                     |                         |                         |                                                                                     |                         |                         |                                                                                     |                         |
| Support Pitch Standard                                    |  | 1000 mm                                                                                                                                                                                                                                                             |                         |                         | 1000 mm                                                                             |                         |                         | 1000 mm                                                                             |                         |
| Lateral                                                   |  | 1000 mm                                                                                                                                                                                                                                                             |                         |                         | 1000 mm                                                                             |                         |                         | 1000 mm                                                                             |                         |
| On curved path                                            |  | 500 mm                                                                                                                                                                                                                                                              |                         |                         | 500 mm                                                                              |                         |                         | 500 mm                                                                              |                         |
| Hanger Clamps                                             |  | 1pole / 4pole                                                                                                                                                                                                                                                       |                         |                         | 1pole / 4pole                                                                       |                         |                         | 1pole / 4pole                                                                       |                         |
| Minimum Pitch Centre 4P HC Fixed                          |  | 43 mm                                                                                                                                                                                                                                                               |                         |                         | 43 mm                                                                               |                         |                         | 43 mm                                                                               |                         |
| 1P HC                                                     |  | 40 mm min                                                                                                                                                                                                                                                           |                         |                         | 40 mm min                                                                           |                         |                         | 40 mm min                                                                           |                         |
| Max distance between Anchor points                        |  | 75 Mtrs                                                                                                                                                                                                                                                             |                         |                         | 75 Mtrs                                                                             |                         |                         | 75 Mtrs                                                                             |                         |
| Power Feeding                                             |  | At joint or at any location                                                                                                                                                                                                                                         |                         |                         | At joint or at any location                                                         |                         |                         | At joint or at any location                                                         |                         |
| Expansion section required for bay lengths more than      |  | 150 Mtrs                                                                                                                                                                                                                                                            |                         |                         | 150 Mtrs                                                                            |                         |                         | 150 Mtrs                                                                            |                         |
| Installation suitable for                                 |  | Indoor / outdoor                                                                                                                                                                                                                                                    |                         |                         | Indoor / outdoor                                                                    |                         |                         | Indoor / outdoor                                                                    |                         |
| OTHER ACCESSORIES                                         |  |                                                                                                                                                                                                                                                                     |                         |                         |                                                                                     |                         |                         |                                                                                     |                         |
| Transfer Guides / Isolating Sections                      |  | Available                                                                                                                                                                                                                                                           |                         |                         | Available                                                                           |                         |                         | Available                                                                           |                         |
| *High Temp. Sleeves For 120 °C                            |  |                                                                                                                                                                                                                                                                     |                         |                         |                                                                                     |                         |                         |                                                                                     |                         |
| APPLICATIONS                                              |  | Shrouded DSL installations for EOT Cranes, Electric Hoists, Straight / Curved Monorails, Conveyors,Amusement Drives, Electric Trolleys,Transfer Cars, Automated storage systems, Material handling systems etc. Aluminium / SS Conductors for Corrosive atmosphere. |                         |                         |                                                                                     |                         |                         |                                                                                     |                         |