

# PRODUCT SPECIFICATION SHEET

**Product Name: IGUS® Chainflex® CF10 Shielded TPE Control Cables**

| Technical Data                  |                                                                 |
|---------------------------------|-----------------------------------------------------------------|
| Minimum Bending Radius, moving  | 5 x outer cable diameter                                        |
| Minimum Bending Radius, fixed   | 3 x outer cable diameter                                        |
| Permissible Temperature, moving | -31° F to 212° F (-35° C to 100° C)                             |
| Permissible Temperature, fixed  | -40° F to 212° F (-40° C to 100° C)                             |
| Voltage                         | 300V                                                            |
| Testing Voltage                 | 2000 Volts                                                      |
| Oil Resistance                  | High                                                            |
| UV Resistance                   | High                                                            |
| Regulations                     |                                                                 |
| CE:                             | Compliant                                                       |
| RoHS:                           | Compliant                                                       |
| Conductor Colors:               | 18-12 AWG: Black with White numbers, one conductor green/yellow |
|                                 | 20-26 AWG: DIN 47100                                            |

| Part #         | AWG | # Of Conductors & Rated Cross-Section (in mm) | Outer Diameter (Approx.) |      | Copper Index |       | Weight  |       |
|----------------|-----|-----------------------------------------------|--------------------------|------|--------------|-------|---------|-------|
|                |     |                                               | Inches                   | mm   | Lbs/Mft      | Kg/Km | Lbs/Mft | Kg/Km |
| IGU-CF10-01-12 | 26  | 12 x 0.14                                     | 0.30"                    | 7.5  | 24.4         | 36    | 54.4    | 80    |
| IGU-CF10-01-18 | 26  | 18 x 0.14                                     | 0.39"                    | 10   | 45.5         | 67    | 74.8    | 110   |
| IGU-CF10-02-04 | 24  | 4 x 0.25                                      | 0.25"                    | 6.5  | 17           | 25    | 27.2    | 40    |
| IGU-CF10-02-08 | 24  | 8 x 0.25                                      | 0.30"                    | 7.5  | 27.2         | 40    | 46.9    | 69    |
| IGU-CF10-02-12 | 24  | 12 x 0.25                                     | 0.35"                    | 9    | 38.1         | 56    | 68      | 100   |
| IGU-CF10-05-04 | 20  | 4 x 0.5                                       | 0.26"                    | 6.5  | 25.8         | 38    | 42.1    | 62    |
| IGU-CF10-05-05 | 20  | 5 x 0.5                                       | 0.28"                    | 7    | 28.6         | 42    | 47.6    | 70    |
| IGU-CF10-05-07 | 20  | 7 x 0.5                                       | 0.30"                    | 7.6  | 35           | 52    | 59      | 88    |
| IGU-CF10-05-12 | 20  | 12 x 0.5                                      | 0.45"                    | 11.5 | 62.6         | 92    | 105.4   | 155   |
| IGU-CF10-05-18 | 20  | 18 x 0.5                                      | 0.51"                    | 13   | 87           | 128   | 146.2   | 215   |
| IGU-CF10-05-25 | 20  | 25 x 0.5                                      | 0.55"                    | 14   | 113.6        | 167   | 190.4   | 280   |
| IGU-CF10-07-04 | 18  | 4 x 0.75                                      | 0.28"                    | 7    | 32           | 47    | 49.6    | 73    |

| Part #         | AWG | # Of Conductors &<br>Rated Cross-Section<br>(in mm) | Outer Diameter (Approx.) |      | Copper Index |       | Weight  |       |
|----------------|-----|-----------------------------------------------------|--------------------------|------|--------------|-------|---------|-------|
|                |     |                                                     | Inches                   | mm   | Lbs/Mft      | Kg/Km | Lbs/Mft | Kg/Km |
| IGU-CF10-07-05 | 18  | 5 x 0.75                                            | 0.30"                    | 7.5  | 38.8         | 57    | 57.1    | 84    |
| IGU-CF10-07-07 | 18  | 7 x 0.75                                            | 0.33"                    | 9    | 51           | 75    | 74.8    | 110   |
| IGU-CF10-07-12 | 18  | 12 x 0.75                                           | 0.49"                    | 12.5 | 93.8         | 138   | 123.8   | 182   |
| IGU-CF10-07-20 | 18  | 20 x 0.75                                           | 0.59"                    | 15   | 139.4        | 205   | 235.3   | 346   |
| IGU-CF10-10-02 | 17  | 2 x 1                                               | 0.26"                    | 6.5  | 25.8         | 38    | 47.6    | 70    |
| IGU-CF10-10-03 | 17  | 3 x 1                                               | 0.28"                    | 7    | 32           | 47    | 49.6    | 73    |
| IGU-CF10-10-04 | 17  | 4 x 1                                               | 0.30"                    | 7.5  | 40.1         | 59    | 59.1    | 87    |
| IGU-CF10-10-05 | 17  | 5 x 1                                               | 0.31"                    | 8    | 48.3         | 71    | 68.9    | 101   |
| IGU-CF10-10-07 | 17  | 7 x 1                                               | 0.39"                    | 10   | 48.3         | 71    | 68.9    | 101   |
| IGU-CF10-10-12 | 17  | 12 x 1                                              | 0.51"                    | 13   | 106.1        | 156   | 157.8   | 232   |
| IGU-CF10-10-18 | 17  | 18 x 1                                              | 0.59"                    | 15   | 150.2        | 221   | 219     | 322   |
| IGU-CF10-15-04 | 16  | 4 x 1.5                                             | 0.35"                    | 9    | 65.3         | 96    | 89.8    | 132   |
| IGU-CF10-15-07 | 16  | 7 x 1.5                                             | 0.45"                    | 11.5 | 105.4        | 155   | 136     | 200   |
| IGU-CF10-15-12 | 16  | 12 x 1.5                                            | 0.61"                    | 15.5 | 150.2        | 221   | 226.4   | 333   |
| IGU-CF10-15-18 | 16  | 18 x 1.5                                            | 0.79"                    | 20   | 245.5        | 361   | 397.8   | 585   |
| IGU-CF10-25-04 | 14  | 4 x 2.5                                             | 0.39"                    | 10   | 85.7         | 126   | 122.4   | 180   |
| IGU-CF10-25-07 | 14  | 7 x 2.5                                             | 0.49"                    | 12.4 | 139.4        | 205   | 204     | 300   |
| IGU-CF10-25-12 | 14  | 12 x 2.5                                            | 0.72"                    | 18.5 | 253.6        | 373   | 359     | 528   |
| IGU-CF10-40-04 | 12  | 4 x 4                                               | 0.45"                    | 11.5 | 127.8        | 188   | 173.4   | 255   |
| IGU-CF10-40-05 | 12  | 5 x 4                                               | 0.53"                    | 13.5 | 167.3        | 246   | 240     | 353   |