

# SUMMIT TELECOM

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## Special Fiber Optic Cables

Item Code: ST-SPC ST-SCPOC

### Submarine Power Cable, Submarine Composite Optical Fiber and Power Cable



### Submarine Power Cable, Submarine Composite Optical Fiber and Power Cable Structure Specifications

3 core(copper core)XLPE insulated separately lead sheathed thick steel armored fiber covering

submarine power cable, submarine composite optical fiber and power cable.

Rated Voltage:8.7/10kV、 8.7/15kV、 (ZS-YJQF41、 ZS-YJQF41+OFC)

| Nominal section | Conductor diameter | Insulation thickness | Lead sheath thickness | HDPE thickness | Cushion thickness | Armor steel diameter | Outer cover thickness | Cable approximate outer diameter | Cable approximate weight |
|-----------------|--------------------|----------------------|-----------------------|----------------|-------------------|----------------------|-----------------------|----------------------------------|--------------------------|
| 50              | 8.2                | 4.5                  | 1.3                   | 2.0            | 2.0               | 5.0                  | 3.0                   | 82                               | 16.1                     |
| 70              | 10.0               | 4.5                  | 1.3                   | 2.0            | 2.0               | 5.0                  | 3.0                   | 86                               | 18.0                     |
| 95              | 11.6               | 4.5                  | 1.4                   | 2.0            | 2.0               | 5.0                  | 3.0                   | 90                               | 19.8                     |
| 120             | 13.0               | 4.5                  | 1.4                   | 2.0            | 2.0               | 5.0                  | 3.0                   | 93                               | 21.5                     |

|     |      |     |     |     |     |     |     |     |      |
|-----|------|-----|-----|-----|-----|-----|-----|-----|------|
| 150 | 14.4 | 4.5 | 1.5 | 2.0 | 2.0 | 5.0 | 3.0 | 96  | 23.3 |
| 185 | 16.2 | 4.5 | 1.5 | 2.0 | 2.0 | 5.0 | 3.0 | 100 | 25.6 |
| 240 | 18.4 | 4.5 | 1.6 | 2.1 | 2.0 | 5.0 | 3.0 | 105 | 28.9 |
| 300 | 20.6 | 4.5 | 1.6 | 2.1 | 2.0 | 5.0 | 3.0 | 111 | 32.4 |
| 400 | 23.5 | 4.5 | 1.7 | 2.2 | 2.0 | 5.0 | 3.0 | 120 | 38.2 |

Rated Voltage:12/20kV(ZS-YJQF41、 ZS-YJQF41+OFC)

| Nominal section | Conductor diameter | Insulation thickness | Lead sheath thickness | HDPE thickness | Cushion thickness | Armor steel diameter | Outer cover thickness | Cable approximate outer diameter | Cable approximate weight |
|-----------------|--------------------|----------------------|-----------------------|----------------|-------------------|----------------------|-----------------------|----------------------------------|--------------------------|
| 50              | 8.2                | 5.5                  | 1.4                   | 2.0            | 2.0               | 5.0                  | 3.0                   | 87                               | 17.6                     |
| 70              | 10.0               | 5.5                  | 1.4                   | 2.0            | 2.0               | 5.0                  | 3.0                   | 91                               | 19.4                     |
| 95              | 11.6               | 5.5                  | 1.5                   | 2.0            | 2.0               | 5.0                  | 3.0                   | 94                               | 21.4                     |
| 120             | 13.0               | 5.5                  | 1.5                   | 2.0            | 2.0               | 5.0                  | 3.0                   | 97                               | 23.1                     |
| 150             | 14.4               | 5.5                  | 1.5                   | 2.0            | 2.0               | 5.0                  | 3.0                   | 101                              | 25.0                     |
| 185             | 16.2               | 5.5                  | 1.6                   | 2.0            | 2.0               | 5.0                  | 3.0                   | 105                              | 27.4                     |
| 240             | 18.4               | 5.5                  | 1.6                   | 2.1            | 2.0               | 5.0                  | 3.0                   | 110                              | 30.8                     |
| 300             | 20.6               | 5.5                  | 1.7                   | 2.1            | 2.0               | 5.0                  | 3.0                   | 115                              | 34.3                     |
| 400             | 23.5               | 5.5                  | 1.8                   | 2.2            | 2.0               | 5.0                  | 3.0                   | 125                              | 40.2                     |

Rated Volatege:18/30kV(ZS-YJQF41、 ZS-YJQF41+OFC)

| Nominal section | Conductor diameter | Insulation thickness | Lead sheath thickness | HDPE thickness | Cushion thickness | Armor steel diameter | Outer cover thickness | Cable approximate outer diameter | Cable approximate weight |
|-----------------|--------------------|----------------------|-----------------------|----------------|-------------------|----------------------|-----------------------|----------------------------------|--------------------------|
| 50              | 8.2                | 8.0                  | 1.5                   | 2.0            | 2.0               | 5.0                  | 3.0                   | 98                               | 21.6                     |
| 70              | 10.0               | 8.0                  | 1.6                   | 2.0            | 2.0               | 5.0                  | 3.0                   | 102                              | 23.5                     |
| 95              | 11.6               | 8.0                  | 1.6                   | 2.1            | 2.0               | 5.0                  | 3.0                   | 106                              | 25.7                     |
| 120             | 13.0               | 8.0                  | 1.6                   | 2.1            | 2.0               | 5.0                  | 3.0                   | 109                              | 27.6                     |
| 150             | 14.4               | 8.0                  | 1.7                   | 2.1            | 2.0               | 5.0                  | 3.0                   | 113                              | 29.6                     |
| 185             | 16.2               | 8.0                  | 1.7                   | 2.2            | 2.0               | 5.0                  | 3.0                   | 117                              | 32.0                     |
| 240             | 18.4               | 8.0                  | 1.8                   | 2.2            | 2.0               | 5.0                  | 3.0                   | 122                              | 35.6                     |
| 300             | 20.6               | 8.0                  | 1.9                   | 2.2            | 2.0               | 5.0                  | 3.0                   | 127                              | 39.4                     |
| 400             | 23.5               | 8.0                  | 1.9                   | 2.3            | 2.0               | 5.0                  | 3.0                   | 137                              | 45.6                     |

Rated Voltage:26/35kV(ZS-YJQF41、 ZS-YJQF41+OFC)

| Nominal section | Conductor diameter | Insulation thickness | Lead sheath thickness | HDPE thickness | Cushion thickness | Armor steel diameter | Outer cover thickness | Cable approximate outer diameter | Cable approximate weight |
|-----------------|--------------------|----------------------|-----------------------|----------------|-------------------|----------------------|-----------------------|----------------------------------|--------------------------|
| 50              | 8.2                | 10.5                 | 1.7                   | 2.1            | 2.0               | 5.0                  | 3.0                   | 110                              | 26.1                     |

|     |      |      |     |     |     |     |     |     |      |
|-----|------|------|-----|-----|-----|-----|-----|-----|------|
| 70  | 10.0 | 10.5 | 1.7 | 2.1 | 2.0 | 5.0 | 3.0 | 114 | 28.3 |
| 95  | 11.6 | 10.5 | 1.8 | 2.2 | 2.0 | 5.0 | 3.0 | 118 | 30.4 |
| 120 | 13.0 | 10.5 | 1.8 | 2.2 | 2.0 | 5.0 | 3.0 | 121 | 32.4 |
| 150 | 14.4 | 10.5 | 1.8 | 2.2 | 2.0 | 5.0 | 3.0 | 124 | 34.5 |
| 185 | 16.2 | 10.5 | 1.9 | 2.3 | 2.0 | 5.0 | 3.0 | 129 | 37.1 |
| 240 | 18.4 | 10.5 | 1.9 | 2.3 | 2.0 | 5.0 | 3.0 | 134 | 41.0 |
| 300 | 20.6 | 10.5 | 2.0 | 2.4 | 2.0 | 5.0 | 3.0 | 139 | 44.9 |
| 400 | 23.5 | 10.5 | 2.1 | 2.4 | 2.0 | 5.0 | 3.0 | 149 | 51.5 |

Rated Voltage:48/66kV(ZS-YJQF41、ZS-YJQF41+OFC)

| Nominal section | Conductor diameter | Insulation thickness | Lead sheath thickness | HDPE thickness | Cushion thickness | Armor steel diameter | Outer cover thickness | Cable approximate outer diameter | Cable approximate weight |
|-----------------|--------------------|----------------------|-----------------------|----------------|-------------------|----------------------|-----------------------|----------------------------------|--------------------------|
| 70              | 10.0               | 13.0                 | 2.0                   | 2.2            | 2.0               | 6.0                  | 3.0                   | 130                              | 34.4                     |
| 95              | 11.6               | 13.0                 | 2.0                   | 2.2            | 2.0               | 6.0                  | 3.0                   | 134                              | 36.3                     |
| 120             | 13.0               | 13.0                 | 2.1                   | 2.2            | 2.0               | 6.0                  | 3.0                   | 137                              | 38.7                     |
| 150             | 14.4               | 13.0                 | 2.1                   | 2.3            | 2.0               | 6.0                  | 3.0                   | 140                              | 40.9                     |
| 185             | 16.2               | 13.0                 | 2.2                   | 2.3            | 2.0               | 6.0                  | 3.0                   | 145                              | 43.9                     |
| 240             | 18.4               | 13.0                 | 2.2                   | 2.3            | 2.0               | 6.0                  | 3.0                   | 150                              | 47.1                     |
| 300             | 20.6               | 13.0                 | 2.3                   | 2.4            | 2.0               | 6.0                  | 3.0                   | 155                              | 51.4                     |

Note: the data in forms are recommended specifications data, producing as customers' requirements are available.

3 core(copper core) XLPE insulated separately LAP sheathed thick steel armored fiber covering submarine power cable, submarine composite optical fiber and power cable.

Rated voltage:8.7/10kV,8.7/1.5kV(ZS-YJAF41,ZS-YJAF41+OFC)

| Nominal section | Conductor diameter | Insulation thickness | LAP thickness | HDPE thickness | Cushion thickness | Armor steel diameter | Outer cover thickness | Cable approximate outer diameter | Cable approximate weight |
|-----------------|--------------------|----------------------|---------------|----------------|-------------------|----------------------|-----------------------|----------------------------------|--------------------------|
| 50              | 8.2                | 4.5                  | 0.3           | 2.3            | 2.0               | 5.0                  | 3.0                   | 80                               | 12.9                     |
| 70              | 10.0               | 4.5                  | 0.3           | 2.3            | 2.0               | 5.0                  | 3.0                   | 84                               | 14.4                     |
| 95              | 11.6               | 4.5                  | 0.3           | 2.4            | 2.0               | 5.0                  | 3.0                   | 88                               | 15.9                     |
| 120             | 13.0               | 4.5                  | 0.3           | 2.4            | 2.0               | 5.0                  | 3.0                   | 91                               | 17.3                     |
| 150             | 14.4               | 4.5                  | 0.3           | 2.4            | 2.0               | 5.0                  | 3.0                   | 94                               | 18.7                     |
| 185             | 16.2               | 4.5                  | 0.3           | 2.5            | 2.0               | 5.0                  | 3.0                   | 98                               | 20.6                     |
| 240             | 18.4               | 4.5                  | 0.3           | 2.5            | 2.0               | 5.0                  | 3.0                   | 103                              | 23.3                     |
| 300             | 20.6               | 4.5                  | 0.3           | 2.5            | 2.0               | 5.0                  | 3.0                   | 108                              | 26.1                     |
| 400             | 23.5               | 4.5                  | 0.3           | 2.6            | 2.0               | 5.0                  | 3.0                   | 117                              | 30.7                     |

Rated Voltage:12/20kV(ZS-YJAF41、ZS-YJAF41+OFC)

| Nominal section | Conductor diameter | Insulation thickness | LAP thickness | HDPE thickness | Cushion thickness | Armor steel diameter | Outer cover thickness | Cable approximate outer diameter | Cable approximate weight |
|-----------------|--------------------|----------------------|---------------|----------------|-------------------|----------------------|-----------------------|----------------------------------|--------------------------|
| 50              | 8.2                | 5.5                  | 0.3           | 2.3            | 2.0               | 5.0                  | 3.0                   | 85                               | 14.0                     |
| 70              | 10.0               | 5.5                  | 0.3           | 2.4            | 2.0               | 5.0                  | 3.0                   | 89                               | 15.4                     |
| 95              | 11.6               | 5.5                  | 0.3           | 2.4            | 2.0               | 5.0                  | 3.0                   | 92                               | 17.1                     |
| 120             | 13.0               | 5.5                  | 0.3           | 2.4            | 2.0               | 5.0                  | 3.0                   | 95                               | 18.3                     |
| 150             | 14.4               | 5.5                  | 0.3           | 2.5            | 2.0               | 5.0                  | 3.0                   | 99                               | 19.8                     |
| 185             | 16.2               | 5.5                  | 0.3           | 2.5            | 2.0               | 5.0                  | 3.0                   | 103                              | 21.8                     |
| 240             | 18.4               | 5.5                  | 0.3           | 2.5            | 2.0               | 5.0                  | 3.0                   | 108                              | 24.6                     |
| 300             | 20.6               | 5.5                  | 0.3           | 2.6            | 2.0               | 5.0                  | 3.0                   | 112                              | 27.4                     |
| 400             | 23.5               | 5.5                  | 0.3           | 2.6            | 2.0               | 5.0                  | 3.0                   | 122                              | 32.0                     |

Rated Voltage:18/30kV(ZS-YJAF41、ZS-YJAF41+OFC)

| Nominal section | Conductor diameter | Insulation thickness | LAP thickness | HDPE thickness | Cushion thickness | Armor steel diameter | Outer cover thickness | Cable approximate outer diameter | Cable approximate weight |
|-----------------|--------------------|----------------------|---------------|----------------|-------------------|----------------------|-----------------------|----------------------------------|--------------------------|
| 50              | 8.2                | 8.0                  | 0.3           | 2.4            | 2.0               | 5.0                  | 3.0                   | 96                               | 16.8                     |
| 70              | 10.0               | 8.0                  | 0.3           | 2.5            | 2.0               | 5.0                  | 3.0                   | 100                              | 18.3                     |
| 95              | 11.6               | 8.0                  | 0.3           | 2.5            | 2.0               | 5.0                  | 3.0                   | 104                              | 19.9                     |
| 120             | 13.0               | 8.0                  | 0.3           | 2.5            | 2.0               | 5.0                  | 3.0                   | 107                              | 21.3                     |
| 150             | 14.4               | 8.0                  | 0.3           | 2.6            | 2.0               | 5.0                  | 3.0                   | 110                              | 22.9                     |
| 185             | 16.2               | 8.0                  | 0.3           | 2.6            | 2.0               | 5.0                  | 3.0                   | 114                              | 25.0                     |
| 240             | 18.4               | 8.0                  | 0.3           | 2.6            | 2.0               | 5.0                  | 3.0                   | 119                              | 27.7                     |
| 300             | 20.6               | 8.0                  | 0.3           | 2.7            | 2.0               | 5.0                  | 3.0                   | 124                              | 30.6                     |
| 400             | 23.5               | 8.0                  | 0.3           | 2.7            | 2.0               | 5.0                  | 3.0                   | 133                              | 35.6                     |

Rated Voltage:26/35kV(ZS-YJAF41、ZS-YJAF41+OFC)

| Nominal section | Conductor diameter | Insulation thickness | LAP thickness | HDPE thickness | Cushion thickness | Armor steel diameter | Outer cover thickness | Cable approximate outer diameter | Cable approximate weight |
|-----------------|--------------------|----------------------|---------------|----------------|-------------------|----------------------|-----------------------|----------------------------------|--------------------------|
| 50              | 8.2                | 10.5                 | 0.3           | 2.5            | 2.0               | 5.0                  | 3.0                   | 107                              | 19.7                     |
| 70              | 10.0               | 10.5                 | 0.3           | 2.6            | 2.0               | 5.0                  | 3.0                   | 111                              | 21.4                     |
| 95              | 11.6               | 10.5                 | 0.3           | 2.6            | 2.0               | 5.0                  | 3.0                   | 115                              | 23.0                     |
| 120             | 13.0               | 10.5                 | 0.3           | 2.6            | 2.0               | 5.0                  | 3.0                   | 118                              | 24.6                     |
| 150             | 14.4               | 10.5                 | 0.3           | 2.7            | 2.0               | 5.0                  | 3.0                   | 121                              | 26.2                     |
| 185             | 16.2               | 10.5                 | 0.3           | 2.7            | 2.0               | 5.0                  | 3.0                   | 125                              | 28.2                     |
| 240             | 18.4               | 10.5                 | 0.3           | 2.7            | 2.0               | 5.0                  | 3.0                   | 130                              | 31.1                     |
| 300             | 20.6               | 10.5                 | 0.3           | 2.8            | 2.0               | 5.0                  | 3.0                   | 135                              | 34.2                     |

|     |      |      |     |     |     |     |     |     |      |
|-----|------|------|-----|-----|-----|-----|-----|-----|------|
| 400 | 23.5 | 10.5 | 0.3 | 2.8 | 2.0 | 5.0 | 3.0 | 144 | 39.3 |
|-----|------|------|-----|-----|-----|-----|-----|-----|------|

Note: the data in forms are recommended specifications data, producing as customers' requirements are available.

Single core(copper core)XLPE insulated lead sheathed thick steel armored fiber covering submarine composite optical fiber and power cable.

Rated Voltage:64/110kV(ZS-YJQ41+OFC)

| Nominal section | Conductor diameter | Insulation thickness | Lead sheath thickness | HDPE thickness | Cushion thickness | Armor steel diameter | Outer cover thickness | Cable approximate outer diameter | Cable approximate weight (single core) |
|-----------------|--------------------|----------------------|-----------------------|----------------|-------------------|----------------------|-----------------------|----------------------------------|--|
| 240             | 18.4               | 19.0                 | 4.0                   | 4.0            | 2.0               | 5.0                  | 3.0                   | 106                              | 27.4                                   |
| 300             | 20.6               | 18.5                 | 4.0                   | 4.0            | 2.0               | 5.0                  | 3.0                   | 107                              | 28.3                                   |
| 400             | 23.5               | 17.5                 | 4.0                   | 4.0            | 2.0               | 5.0                  | 3.0                   | 108                              | 29.4                                   |
| 500             | 26.6               | 17.0                 | 4.0                   | 4.0            | 2.0               | 5.0                  | 3.0                   | 110                              | 30.9                                   |
| 630             | 30.0               | 16.5                 | 4.0                   | 4.5            | 2.0               | 5.0                  | 3.0                   | 114                              | 33.3                                   |
| 800             | 34.0               | 16.0                 | 4.0                   | 4.5            | 2.0               | 5.0                  | 3.0                   | 117                              | 36.1                                   |
| 1000            | 38.2               | 16.0                 | 4.0                   | 4.5            | 2.0               | 5.0                  | 3.0                   | 122                              | 39.0                                   |

Note: the data in forms are recommended specifications data, producing as customers' requirements are available.