

|   |      |   |   |   |   |   |   |   |   |   |
|---|------|---|---|---|---|---|---|---|---|---|
| A | Dept | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | A |
|   | Qty  |   |   |   |   |   |   |   |   |   |
|   | DC   | 1 |   |   |   |   |   |   |   |   |
|   | ED   | 1 |   |   |   |   |   |   |   |   |
|   | IE   | 1 |   |   |   |   |   |   |   |   |
|   | ISO  | 1 |   |   |   |   |   |   |   |   |
|   | PD   | 1 |   |   |   |   |   |   |   |   |
| B | R&D  | 1 |   |   |   |   |   |   |   | B |
|   | SD   | 1 |   |   |   |   |   |   |   |   |
|   | QA   | 1 |   |   |   |   |   |   |   |   |
|   | QC   | 1 |   |   |   |   |   |   |   |   |
| C | QE   | 1 |   |   |   |   |   |   |   | C |
|   |      |   |   |   |   |   |   |   |   |   |
|   |      |   |   |   |   |   |   |   |   |   |
| D |      |   |   |   |   |   |   |   |   | D |
|   |      |   |   |   |   |   |   |   |   |   |
|   |      |   |   |   |   |   |   |   |   |   |
| E |      |   |   |   |   |   |   |   |   | E |
|   |      |   |   |   |   |   |   |   |   |   |
|   |      |   |   |   |   |   |   |   |   |   |
| F |      |   |   |   |   |   |   |   |   | F |
|   |      |   |   |   |   |   |   |   |   |   |
|   |      |   |   |   |   |   |   |   |   |   |
| G |      |   |   |   |   |   |   |   |   | G |
|   |      |   |   |   |   |   |   |   |   |   |
|   |      |   |   |   |   |   |   |   |   |   |
| H |      |   |   |   |   |   |   |   |   | H |
|   |      |   |   |   |   |   |   |   |   |   |
|   |      |   |   |   |   |   |   |   |   |   |

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| Cross section(mm²) | Conductor construction Dim A(No./mm) | Cable OD (mm) | Max Cond Resistance (Ω/km,20°C) | Current carrying Capacity AT 60°C(A) |
|--------------------|--------------------------------------|---------------|---------------------------------|--------------------------------------|
| 1.5                | 30/0.25                              | 4.9           | 13.7                            | 30                                   |
| 2.5                | 49/0.25                              | 5.4           | 8.21                            | 41                                   |
| 4.0                | 56/0.285                             | 6.0           | 5.09                            | 55                                   |
| 6.0                | 84/0.285                             | 6.5           | 3.39                            | 70                                   |
| 10                 | 84/0.4                               | 8.0           | 1.95                            | 98                                   |
| 16                 | 128/0.4                              | 9.6           | 1.24                            | 132                                  |
| 25                 | 192/0.4                              | 11.4          | 0.795                           | 176                                  |
| 35                 | 276/0.4                              | 13.3          | 0565                            | 218                                  |

(Series Image-Reference Only)

| REV. | DESCRIPTION | DRAWN         | CHECKED | APPROVED |
|------|-------------|---------------|---------|----------|
| A    | NEW RELEASE | JLZ 09/28/23' |         |          |
|      |             |               |         |          |
|      |             |               |         |          |
|      |             |               |         |          |

Notes:

Product Description:

Conductor: Annealed soft tin copper.

Insulation: Electron-beam cross-linked material.

Jacket: Electron-beam cross-linked material.

Rated voltage: AC Uo/U=1000/1000VAC, 1500VDC.

Voltage test on finished cable:6.5kV AC, 15kV DC, 5min

Ambiet temperature: (-40°C up to +90°C).

Max.Temperature at conductor: +120°C.

Service life>25years: (-40°C up to +90°C) .

The permitted short-circuit-temperature: 200°C, 5 seconds.

Bending radius: ≥4xφ (D<8mm) ;≥6xφ (D≥8mm).

Acid and alkali resistance test: EN60811-2-1.

Cold bending test: EN60811-1-4.

Damp heat test: EN60068-2-78.

Sunlight resistance: EN60811-501, EN50289-4-17.

O-zone resistance test of finished cable: EN50396.

Fire test: EN60332-1-2.

Smoke density: IEC61034, EN50268-2.

Assessment of halogens for all non-metallic material: IEC670754-1 EN50267-2-1.

Product Number Code:

DS1193-03 - X X X X X

Temperature at conductor  
120:120°C

Jacket Colour  
B:Black R:Red

Copper plating  
6:Tin

Packing type  
R:Reel

Cable size  
1.5 2.5 4.0 6.0  
10 16 25 35

| GENERAL TOLERANCE | ANGLE TOLERANCE     | PROJECTION |        | TITLE  | EN H1Z2Z2-K Photovoltaic Line Solar Photovoltaic DC Line |
|-------------------|---------------------|------------|--------|--------|----------------------------------------------------------|
| X. ±0.60          | X. ±5°              | UNITS      | mm     |        |                                                          |
| .X ±0.38          | .X ±3°              | SHEET SIZE | A4     | SERIES | DS1193-03 SERIES                                         |
| .XX ±0.25         | .XX ±2°             |            |        |        |                                                          |
| DRAWING TYPE      | CUSTOMER            |            |        |        |                                                          |
| SCALE             | 1:1                 | SHEET      | 1 OF 1 |        |                                                          |
| DRAWING NO.       | C-DS1193-03-XXXXX-A |            |        |        |                                                          |

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