

Fibre Group Corporation

Powering the Future with Clean Energy

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Introduction

We are a premier distribution house dedicated to powering India's renewable energy and industrial sectors.

At FGC, we understand that the integrity of a solar power plant or an industrial unit depends on the quality of its electrical connectivity. We serve as a strategic partner to EPC contractors and solar developers by bridging the gap between world-class manufacturing and on-site execution.



Our operations are built on maintaining ready inventory, providing technical expertise, and ensuring logistical efficiency to keep project timelines on track.

Vision

To be the most trusted and efficient backbone of India's solar and industrial infrastructure by setting the benchmark for quality distribution and technical excellence in the electrical supply chain.

Vision and *Mission*

Mission

01

Be a technical partner, not just a vendor

02

Enable EPCs with ready local stock

03

Deliver quality cables for solar safety

04

Ensure safe solar power evacuation

Our Products

01



*Focus on UV resistance,
specialized DC cables, and
earthing solutions*

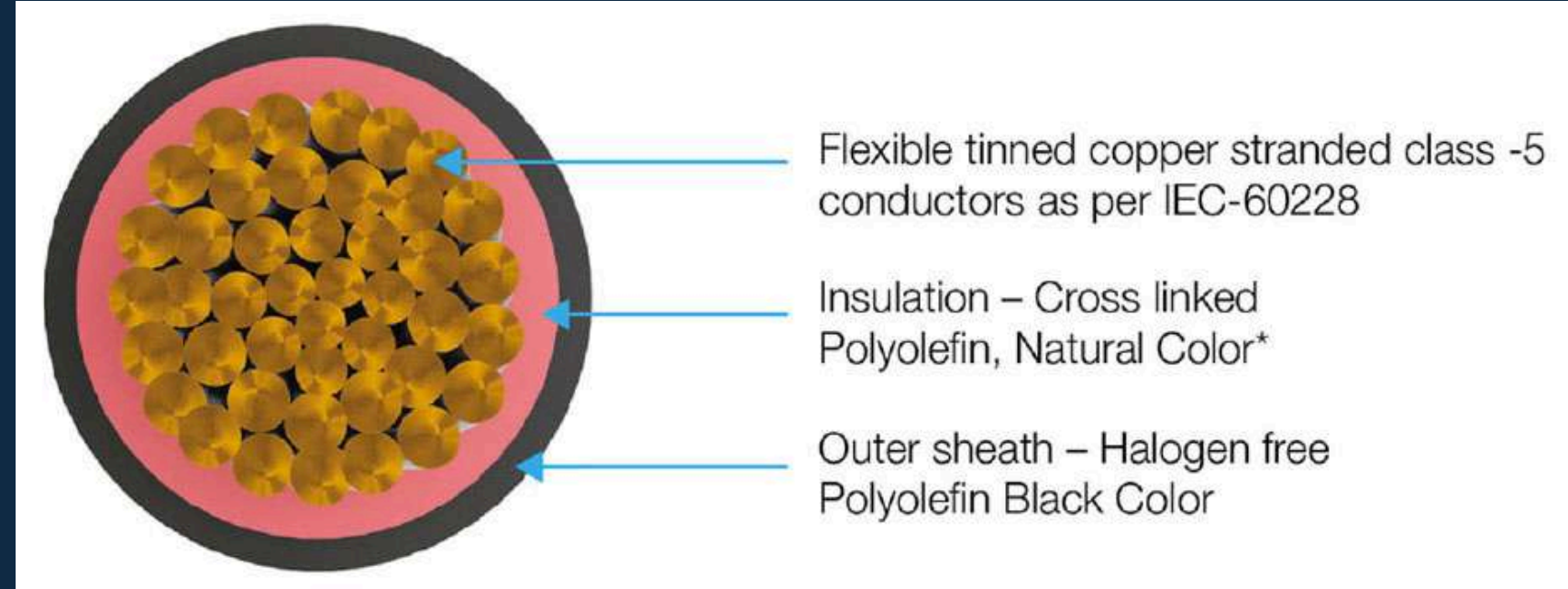
02



*Highlight safety, heritage,
and high-voltage
reliability*

SriniLink

PVC HR-FR Solar Cable



PVC HR-FR SOLAR CABLE :

(Type C (HR-FR) Insulation & ST 2 (FR) Sheath) Reach Compliance

| Sr.No | Description | Specification | Values | Remark |
|-------|------------------------|--|--|--|
| 1 | Conductor | IS 8130 Class 5 or IEC 60332-1 Class 5 | Flexible Annealed tinned Copper | 99.90% to 99.97% Purity |
| 2 | PVC Insulation (Reach) | IS 5831 Type C (HRFR) | Normal operating continuous temp 85 deg and Short Circuit temp 160 deg | UV resistance and anti rodent |
| 3 | PVC Sheath (Reach) | IS 5831 | Type ST 2 (FR) | Black color with UV resistance and anti rodent |
| 4 | FR properties | IS 5831 | Oxygen Index 29% and temp Index 250 deg | Thermal aging more than 200 min @ 200 deg |
| 5 | Voltage | IS 1554 | 1500 V DC | Max permitted 1800 V DC |
| 6 | Bending radius | -- | Ø X 4 | For fixed Installation |
| 7 | Bending radius | -- | Ø X 5 | For Occasionally moved |
| 8 | Std Packing | -- | 100 meters | As per requirement multiple |
| 9 | Expected life | -- | More than 25 years | @ 85 deg |

TECHNICAL SPECIFICATION: -

(Generally Conforming To IS : 1554 (part 1) - 1988)

| Area Of Conductor | Number of Strands / Diameter Of Wire | Nominal Thickness Of Insulation | Nominal Thickness Of Insulation | Over All Diameter (Max) | Resistance Per Km @ 20' C (Max) | | Current Carrying Capacity | |
|-------------------|--------------------------------------|---------------------------------|---------------------------------|-------------------------|---------------------------------|---------------|---------------------------|--|
| | | | | | ohms | | | |
| Sq.mm | mm | mm | Mm | Mm | Bare Copper | Tinned Copper | Amps | |
| 1.5 | 30/0.25 | 0.80 | 1.24 | 5.70 | 13.3 | 13.7 | 16 | |
| 2.5 | 50/0.25 | 0.90 | 1.24 | 6.37 | 7.98 | 8.21 | 22 | |
| 4.0 | 56/0.3 | 1.00 | 1.24 | 7.13 | 4.95 | 5.09 | 29 | |
| 6.0 | 84/0.3 | 1.00 | 1.24 | 7.72 | 3.30 | 3.39 | 37 | |
| 10 | 140/0.3 | 1.00 | 1.24 | 8.67 | 1.91 | 1.95 | 51 | |
| 16 | 126/0.4 | 1.20 | 1.24 | 10.18 | 1.21 | 1.24 | 68 | |
| 25 | 196/0.4 | 1.20 | 1.24 | 11.49 | 0.780 | 0.795 | 86 | |
| 35 | 276/0.4 | 1.40 | 1.24 | 13.12 | 0.554 | 0.565 | 110 | |
| 50 | 396/0.4 | 1.40 | 1.24 | 14.67 | 0.386 | 0.393 | 145 | |
| 70 | 354/0.5 | 1.60 | 1.24 | 16.78 | 0.272 | 0.277 | 215 | |
| 95 | 480/0.5 | 1.60 | 1.40 | 18.72 | 0.206 | 0.210 | 260 | |
| 120 | 607/0.5 | 1.80 | 1.40 | 20.95 | 0.161 | 0.164 | 305 | |
| 150 | 760/0.5 | 2.00 | 1.40 | 22.96 | 0.129 | 0.132 | 355 | |
| 185 | 941/0.5 | 2.20 | 1.40 | 25.20 | 0.106 | 0.108 | 415 | |
| 240 | 1221/0.5 | 2.40 | 1.40 | 28.04 | 0.0801 | 0.817 | 500 | |
| 300 | 1527/0.5 | 2.60 | 1.40 | 30.85 | 0.0641 | 0.0654 | 585 | |

SriniLink

XLPE Solar Cable

XLPE SOLAR CABLE :

(XLPE Insulation & ST 2 (FR) PVC Sheath) Reach Compliance

| Sr.No | Description | Specification | Values | Remark |
|-------|--------------------|--|--|--|
| 1 | Conductor | IS 8130 Class 5 or IEC 60332-1 Class 5 | Flexible Annealed tinned Copper | 99.90% to 99.97% Purity |
| 2 | XLPE Insulation | IS : 7098 (Part 1) | Normal operating continuous temp 90 deg and Short Circuit temp 250 deg | -- |
| 3 | PVC Sheath (Reach) | IS : 5831 | Type ST 2 (FR) | Black color with UV resistance and anti rodent |
| 4 | FR properties | IS 5831 | Oxygen Index 29% and temp Index 250 deg | Thermal aging more than 200 min @ 200 deg |
| 5 | Voltage | IS : 7098 (Part 1) | 1500 V DC | Max permitted 2000 V DC |
| 6 | Bending radius | -- | Ø X 4 | For fixed Installation |
| 7 | Bending radius | -- | Ø X 5 | For Occasionally moved |
| 8 | Packing | -- | 100 meters | On demand 200 to etc. |
| 9 | Expected life | -- | More than 25 years | @ 90 deg |

TECHNICAL SPECIFICATION: -

(Generally Conforming To IS : 7098 (part 1) - 2003)

| Area Of Conductor | Number of Strands / Diameter Of Wire | Nominal Thickness Of Insulation | Nominal Thickness Of Insulation | Over All Diameter (Max) | Resistance Per Km @ 20' C (Max) | | Current Carrying Capacity | |
|-------------------|--------------------------------------|---------------------------------|---------------------------------|-------------------------|---------------------------------|---------------|---------------------------|--|
| | | | | | ohms | | | |
| Sq.mm | mm | Mm | mm | Mm | Bare Copper | Tinned Copper | Amps | |
| 1.5 | 30/0.25 | 0.70 | 1.24 | 5.50 | 13.3 | 13.7 | 16 | |
| 2.5 | 50/0.25 | 0.70 | 1.24 | 5.97 | 7.98 | 8.21 | 22 | |
| 4.0 | 56/0.3 | 0.70 | 1.24 | 6.53 | 4.95 | 5.09 | 29 | |
| 6.0 | 84/0.3 | 0.70 | 1.24 | 7.12 | 3.30 | 3.39 | 37 | |
| 10 | 140/0.3 | 0.70 | 1.24 | 8.07 | 1.91 | 1.95 | 51 | |
| 16 | 126/0.4 | 0.70 | 1.24 | 9.18 | 1.21 | 1.24 | 68 | |
| 25 | 196/0.4 | 0.90 | 1.24 | 10.89 | 0.780 | 0.795 | 86 | |
| 35 | 276/0.4 | 0.90 | 1.24 | 12.12 | 0.554 | 0.565 | 110 | |
| 50 | 396/0.4 | 1.00 | 1.24 | 13.87 | 0.386 | 0.393 | 145 | |
| 70 | 354/0.5 | 1.10 | 1.24 | 15.78 | 0.272 | 0.277 | 215 | |
| 95 | 480/0.5 | 1.10 | 1.24 | 17.40 | 0.206 | 0.210 | 260 | |
| 120 | 607/0.5 | 1.20 | 1.40 | 19.75 | 0.161 | 0.164 | 305 | |
| 150 | 760/0.5 | 1.40 | 1.40 | 21.76 | 0.129 | 0.132 | 355 | |
| 185 | 941/0.5 | 1.60 | 1.40 | 24.00 | 0.106 | 0.108 | 415 | |
| 240 | 1221/0.5 | 1.70 | 1.40 | 26.64 | 0.0801 | 0.817 | 500 | |
| 300 | 1527/0.5 | 1.80 | 1.40 | 29.25 | 0.0641 | 0.0654 | 585 | |

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ZHFR Solar Cable

ZHFR SOLAR CABLE :

(ZHFR Insulation & ZHFR Sheath) RoHS Compliance

| Sr.No | Description | Specification | Values | Remark |
|-------|-----------------------------|--|---|--|
| 1 | Conductor | IS 8130 Class 5 or IEC 60332-1 Class 5 | Flexible Annealed tinned Copper | 99.90% to 99.97% Purity |
| 2 | ZHFR (HFFR) Insulation | UL 4703 | Dry normal operating continuous temp 105 deg and wet 90 deg, Short Circuit temp 250 deg | UV resistance and anti rodent |
| 3 | ZHFR (HFFR) Sheath | UL 4703 | -- | Black color with UV resistance and anti rodent |
| 4 | FR properties | ASTM D 2863 | Oxygen Index 31% and temp Index 270 deg | Thermal aging more than 200 min @ 200 deg |
| | Smoke density rating | ASTM D 2843 | 6 % | -- |
| | Halogen gas acid generation | IEC 60754-1 | Nil % | -- |
| 5 | Voltage | -- | 600 V / 1000 V / 2000 V DC | Max permitted 2000 V DC |
| 6 | Bending radius | -- | Ø X 4 | For fixed Installation |
| 7 | Bending radius | -- | Ø X 5 | For Occasionally moved |
| 8 | Packing | -- | 100 meters | On demand 200 to etc. |
| 9 | Expected life | -- | More than 25 years | @ 90 deg |

TECHNICAL SPECIFICATION: -

(Generally Conforming To IEC 60228 CLASS 5 & UL 4703 Photovoltaic Wire)

| Area Of Conductor | Number of Strands / Diameter Of Wire | Nominal Thickness Of Insulation | Nominal Thickness Of Insulation | Over All Diameter (Max) | Resistance Per Km @ 20' C (Max) | | Current Carrying Capacity 60 deg (free in air) |
|-------------------|--------------------------------------|---------------------------------|---------------------------------|-------------------------|---------------------------------|---------------|--|
| | | | | | ohms | | |
| Sq.mm | mm | Mm | mm | Mm | Bare Copper | Tinned Copper | Amps |
| 1.5 | 30/0.25 | 0.55 | 0.55 | 3.82 | 13.3 | 13.7 | 29 |
| 2.5 | 50/0.25 | 0.55 | 0.55 | 4.29 | 7.98 | 8.21 | 41 |
| 4.0 | 56/0.3 | 0.55 | 0.55 | 4.85 | 4.95 | 5.09 | 55 |
| 6.0 | 84/0.3 | 0.65 | 0.65 | 5.84 | 3.30 | 3.39 | 70 |
| 10 | 140/0.3 | 0.65 | 0.65 | 6.79 | 1.91 | 1.95 | 98 |
| 16 | 126/0.4 | 0.65 | 0.65 | 7.90 | 1.21 | 1.24 | 132 |
| 25 | 196/0.4 | 0.65 | 0.65 | 9.21 | 0.780 | 0.795 | 176 |
| 35 | 276/0.4 | 0.80 | 0.80 | 11.04 | 0.554 | 0.565 | 218 |
| 50 | 396/0.4 | 0.80 | 0.80 | 12.59 | 0.386 | 0.393 | 276 |
| 70 | 354/0.5 | 0.80 | 0.80 | 14.30 | 0.272 | 0.277 | 347 |
| 95 | 480/0.5 | 0.80 | 0.80 | 15.92 | 0.206 | 0.210 | 416 |
| 120 | 607/0.5 | 0.90 | 0.90 | 18.15 | 0.161 | 0.164 | 488 |
| 150 | 760/0.5 | 0.90 | 0.90 | 19.76 | 0.129 | 0.132 | 566 |
| 185 | 941/0.5 | 0.90 | 0.90 | 21.60 | 0.106 | 0.108 | 644 |
| 240 | 1221/0.5 | 0.90 | 0.90 | 24.04 | 0.0801 | 0.817 | 775 |
| 300 | 1527/0.5 | 0.90 | 0.90 | 26.45 | 0.0641 | 0.0654 | 895 |

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XLPO Solar Cable

XLPO SOLAR CABLE :

(XLPO Insulation & ZHFR Sheath) RoHS Compliance

| Sr.No | Description | Specification | Values | Remark |
|-------|-----------------|--|---|--|
| 1 | Conductor | IS 8130 Class 5 or IEC 60332-1 Class 5 | Flexible Annealed tinned Copper | 99.90% to 99.97% Purity |
| 2 | XLPO Insulation | UL 4703 | Dry normal operating continuous temp 105 deg and wet 90 deg, Short Circuit temp 250 deg | UV resistance |
| 3 | ZHFR Sheath | UL 4703 | -- | Black color with UV resistance and anti rodent |
| 4 | FR properties | IS 5831 | Oxygen Index 29% and temp Index 250 deg | Thermal aging more than 200 min @ 200 deg |
| 5 | Voltage | | 600 V / 1000 V / 2000 V DC | Max permitted 2000 V DC |
| 6 | Bending radius | -- | Ø X 4 | For fixed Installation |
| 7 | Bending radius | -- | Ø X 5 | For Occasionally moved |
| 8 | Packing | -- | 100 meters | On demand 200 to etc. |
| 9 | Expected life | -- | More than 25 years | @ 90 deg |

TECHNICAL SPECIFICATION: -

(Generally Conforming To IEC 60228 CLASS 5 & UL 4703 Photovoltaic Wire)

| Area Of Conductor | Number of Strands / Diameter Of Wire | Nominal Thickness Of Insulation | Nominal Thickness Of Insulation | Over All Diameter (Max) | Resistance Per Km @ 20' C (Max) | | Current Carrying Capacity 60 deg (free in air) |
|-------------------|--------------------------------------|---------------------------------|---------------------------------|-------------------------|---------------------------------|---------------|--|
| | | | | | ohms | | |
| Sq.mm | mm | mm | mm | mm | Bare Copper | Tinned Copper | Amps |
| 1.5 | 30/0.25 | 0.55 | 0.55 | 3.82 | 13.3 | 13.7 | 29 |
| 2.5 | 50/0.25 | 0.55 | 0.55 | 4.29 | 7.98 | 8.21 | 41 |
| 4.0 | 56/0.3 | 0.55 | 0.55 | 4.85 | 4.95 | 5.09 | 55 |
| 6.0 | 84/0.3 | 0.65 | 0.65 | 5.84 | 3.30 | 3.39 | 70 |
| 10 | 140/0.3 | 0.65 | 0.65 | 6.79 | 1.91 | 1.95 | 98 |
| 16 | 126/0.4 | 0.65 | 0.65 | 7.90 | 1.21 | 1.24 | 132 |
| 25 | 196/0.4 | 0.65 | 0.65 | 9.21 | 0.780 | 0.795 | 176 |
| 35 | 276/0.4 | 0.80 | 0.80 | 11.04 | 0.554 | 0.565 | 218 |
| 50 | 396/0.4 | 0.80 | 0.80 | 12.59 | 0.386 | 0.393 | 276 |
| 70 | 354/0.5 | 0.80 | 0.80 | 14.30 | 0.272 | 0.277 | 347 |
| 95 | 480/0.5 | 0.80 | 0.80 | 15.92 | 0.206 | 0.210 | 416 |
| 120 | 607/0.5 | 0.90 | 0.90 | 18.15 | 0.161 | 0.164 | 488 |
| 150 | 760/0.5 | 0.90 | 0.90 | 19.76 | 0.129 | 0.132 | 566 |
| 185 | 941/0.5 | 0.90 | 0.90 | 21.60 | 0.106 | 0.108 | 644 |
| 240 | 1221/0.5 | 0.90 | 0.90 | 24.04 | 0.0801 | 0.817 | 775 |
| 300 | 1527/0.5 | 0.90 | 0.90 | 26.45 | 0.0641 | 0.0654 | 895 |

Finolex

SOLAR PV Cables

Features:

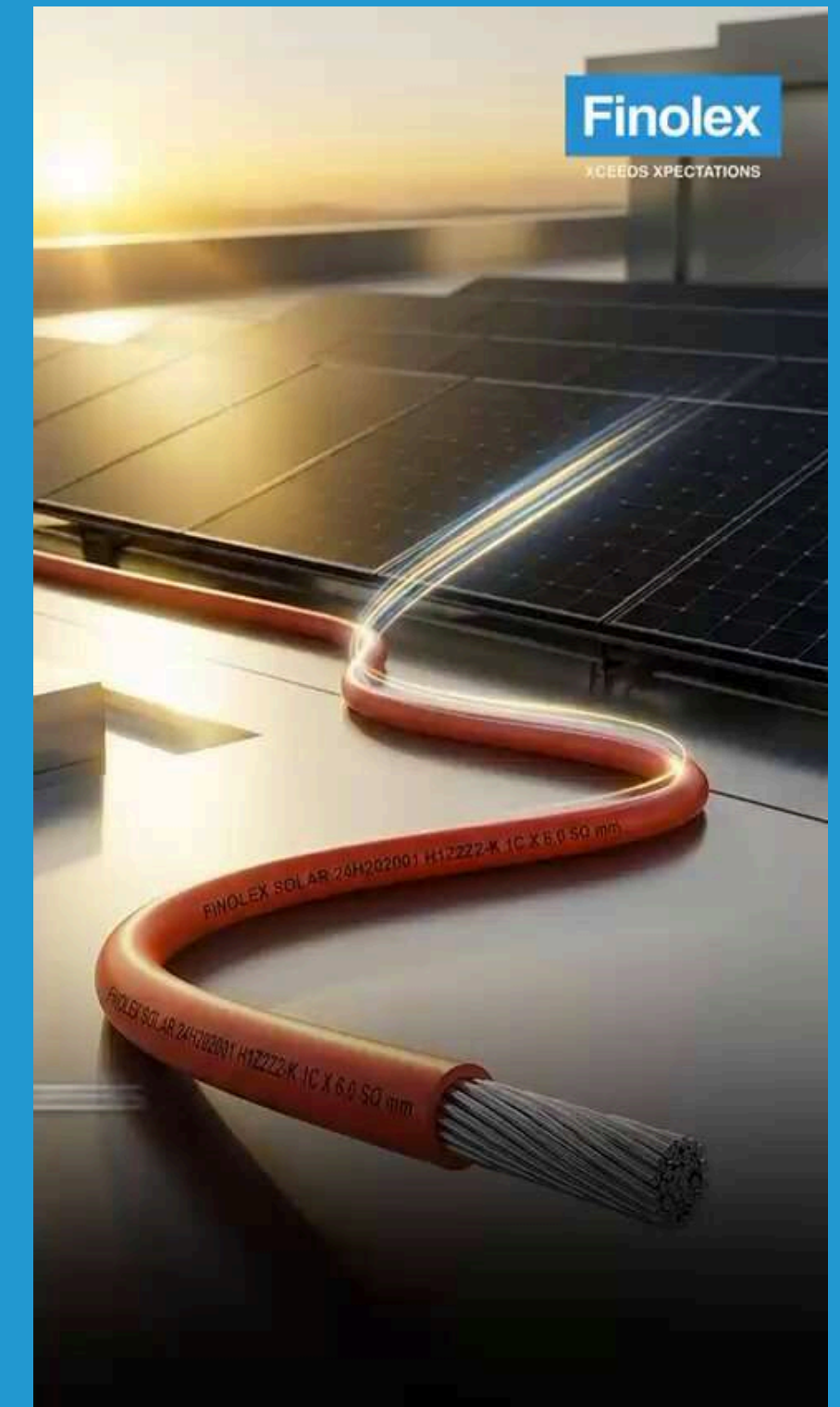
**In-house Electron Beam curing facility,
imported from Korea***

UV, Ozone, Temperature & Hydrolysis Resistant

Flame Retardant, Low Smoke

Excellent Encapsulation

Service Life exceeding 25 years



Thank You

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