

The technical specification sheet for the purchase of twisted conductor

Manufacturer

HENAN TONG-DA CABLE CO.,LTD

Material

SIP2- 3x35+1 x50mm²

Name

Conductor 3x35+1x50 (54.6) mm²

Specified	Offered
Standard: SM HD626 S1:2015	Standard: SM HD626 S1:2015

Construction Characteristics

Insulation type	Cross-linked polyethylene	Cross-linked polyethylene
Phase/Neutral composition	AL/AlMgSi	AL/AlMgSi
Lay direction of outer layer	Right-hand lay (Z)	Right-hand lay (Z)
Maximum lay pitch, mm	870	870
Type of coil	[Not specified]	Wooden Drums

Dimensional Characteristics

	Phase	Neutral	Phase	Neutral
Cross-section, mm ²	35	50 (54.6)	35	50 (54.6)
Number of wires	7 (RMC)	7 (RMC)	7 (RMC)	7 (RMC)
Wire diameter, mm	6.7-7.1	7.85-8.35	6.7-7.1	7.85-8.35
Nominal insulation thickness, mm	1.3	1.6	1.3	1.6
Minimum insulation thickness, mm	1.07	1.34	1.07	1.34
Maximum conductor diameter with insulation, mm	8.0-8.4	9.45-9.95	8.0-8.4	9.45-9.95

Twisted Bundle Characteristics

Twisted bundle diameter, mm	29.0
Twisted bundle weight, kg/m	0.57
Minimum breaking force, kN	-

Electrical Characteristics

Parameter	Phase	Neutral
DC resistance at 25°C, Ω	0.868	0.720 (0.630)
Maximum allowable current, A	160	160
Short-circuit current, I _s , kA	3.2	3.2

Markings

Phase	Neutral
A	B

Certifications

| Quality System ISO 9001:2008 | Yes | Yes |

Technical Specification Sheet for the Purchase of Twisted Conductor

Manufacturer

HENAN TONG-DA CABLE CO.,LTD

Material

SIP2- 3x70+1x95+1x25mm²

Name

Conductor 3x70+1x95+1x25 mm²

Specified	Offered
Standard: SM HD626 S1:2015	Standard: SM HD626 S1:2015

Construction Characteristics

Characteristic	Specified	Offered
Insulation type	Cross-linked polyethylene	Cross-linked polyethylene
Phase/Neutral composition	AL/AlMgSi	AL/AlMgSi
Lay direction of outer layer	Right-hand lay (Z)	Right-hand lay (Z)
Maximum lay pitch, mm	1170	1170
Type of coil	[Not specified]	Wooden Drums

Dimensional Characteristics

Parameter	Phase/IP	Neutral	Phase/IP	Neutral
Cross-section, mm ²	70/25	95	70/25	95
Number of wires	7 (RMC)	7 (RMC)	7 (RMC)	7 (RMC)
Wire diameter, mm	9.45–9.95 / 5.7–6.1	11.1–11.7	9.45–9.95 / 5.7–6.1	11.1–11.7
Nominal insulation thickness, mm	1.7 / 1.3	1.7	1.7 / 1.3	1.7
Minimum insulation thickness, mm	1.25 / 1.07	1.34	1.25 / 1.07	1.34
Maximum conductor diameter with insulation, mm	10.95–11.45 / 7.0–7.4	12.7–13.3	10.95–11.45 / 7.0–7.4	12.7–13.3

Twisted Bundle Characteristics

Characteristic	Value
Twisted bundle diameter, mm	32.0
Twisted bundle weight, kg/m	1.13
Minimum breaking force, kN	- / 27.9

Electrical Characteristics

Parameter	Phase	Neutral
DC resistance at 25°C, Ω	0.443 / 1.2	0.363
Maximum allowable current, A	240 / 130	240 / 130
Short-circuit current, 1 s, kA	6.5	6.5

Markings

Phase	Neutral
A	B

Certifications

- ISO 9001:2008 – Yes

Technical Specification Sheet for the Purchase of Twisted Conductor

Manufacturer

HENAN TONG-DA CABLE
CO.,LTD

Material

SIP2- 2x35mm²

Name

Conductor 2x35 mm²

Specified	Offered
Standard: SM HD626 S1:2015	Standard: SM HD626 S1:2015

Construction Characteristics

Characteristic	Specified	Offered
Insulation type	Cross-linked polyethylene	Cross-linked polyethylene
Phase/Neutral composition	AL / AL	AL / AL
Lay direction of outer layer	Right-hand lay (Z)	Right-hand lay (Z)
Maximum lay pitch, mm	460	460
Type of coil	[Not specified]	Wooden Drums

Dimensional Characteristics

Parameter	Phase	Neutral	Phase	Neutral
Cross-section, mm ²	35	35	35	35
Number of wires	7 (RMC)	7 (RMC)	7 (RMC)	7 (RMC)
Wire diameter, mm	6.7-7.1	6.7-7.1	6.7-7.1	6.7-7.1
Nominal insulation thickness, mm	1.3	1.3	1.3	1.3
Minimum insulation thickness, mm	1.07	1.07	1.07	1.07
Maximum conductor diameter with insulation, mm	8.0-8.4	8.0-8.4	8.0-8.4	8.0-8.4

Twisted Bundle Characteristics

Characteristic	Value
Twisted bundle diameter, mm	20.0
Twisted bundle weight, kg/m	0.26

Electrical Characteristics

Parameter	Phase	Neutral
DC resistance at 25°C, Ω	0.868	0.986
Maximum allowable current, A	160	160
Short-circuit current, 1 s, kA	3.2	3.2

Markings

Phase	Neutral
A	B

Certifications

- ISO 9001:2008 – Yes

Technical Specification Sheet for the Purchase of Twisted Conductor

Manufacturer

HENAN TONG-DA CABLE CO.,LTD

Material

SIP2- 3x35+1x50+1x25mm²

Name

Conductor 3x35+1x50+1x25

Specified	Offered
Standard: SM HD626 S1:2015	Standard: SM HD626 S1:2015

Construction Characteristics

Characteristic	Specified	Offered
Insulation type	Cross-linked polyethylene	Cross-linked polyethylene
Phase/Neutral composition	AL / AlMgSi	AL / AlMgSi
Lay direction of outer layer	Right-hand lay (Z)	Right-hand lay (Z)
Maximum lay pitch, mm	870	870
Type of coil	[Not specified]	Wooden Drums

Dimensional Characteristics

Parameter	Phase/IP	Neutral	Phase/IP	Neutral
Cross-section, mm ²	35/25	50 (54.6)	35/25	50 (54.6)
Number of wires	7 (RMC) / 7 (RMC) / RE	7 (RMC)	7 (RMC) / 7 (RMC) / RE	7 (RMC)
Wire diameter, mm	6.7-7.1 / 5.7-6.1	7.85-8.35	6.7-7.1 / 5.7-6.1	7.85-8.35
Nominal insulation thickness, mm	1.3 / 1.3	1.6	1.3 / 1.3	1.6
Minimum insulation thickness, mm	1.07 / 1.07	1.34	1.07 / 1.07	1.34
Maximum conductor diameter with insulation, mm	8.0-8.4 / 7.0-7.4	9.45-9.95	8.0-8.4 / 7.0-7.4	9.45-9.95

Twisted Bundle Characteristics

Characteristic	Value
Twisted bundle diameter, mm	29.0
Twisted bundle weight, kg/m	0.635
Minimum breaking force, kN	- / 14.2 (16.6)

Electrical Characteristics

Parameter	Phase	Neutral
DC resistance at 25°C, Ω	0.868 / 1.91	0.720 (0.630)
Maximum allowable current, A	160 / 105	160 / 105
Short-circuit current, 1 s, kA	3.2	3.2

Markings

Phase	Neutral
A	B

Certifications

- ISO 9001:2008 – Yes

Technical Specification Sheet for the Purchase of Twisted Conductor

Manufacturer

HENAN TONG-DA CABLE CO.,LTD

Material

SIP2-3x50+1x70mm²

Name

Conductor 3x50+1x70 mm²

Specified	Offered
Standard: SM HD626 S1:2015	Standard: SM HD626 S1:2015

Construction Characteristics

Characteristic	Specified	Offered
Insulation type	Cross-linked polyethylene	Cross-linked polyethylene
Phase/Neutral composition	AL / AlMgSi	AL / AlMgSi
Lay direction of outer layer	Right-hand lay (Z)	Right-hand lay (Z)
Maximum lay pitch, mm	1020	1020
Type of coil	[Not specified]	Wooden Drums

Dimensional Characteristics

Parameter	Phase	Neutral	Phase	Neutral
Cross-section, mm ²	50	70	50	70
Number of wires	7 (RMC)	7 (RMC)	7 (RMC)	7 (RMC)
Wire diameter, mm	7.85-8.35	9.45-9.95	7.85-8.35	9.45-9.95
Nominal insulation thickness, mm	1.5	1.7	1.5	1.7
Minimum insulation thickness, mm	1.25	1.34	1.25	1.34
Maximum conductor diameter with insulation, mm	9.35-9.85	11.05-11.55	9.35-9.85	11.05-11.55

Twisted Bundle Characteristics

Characteristic	Value
Twisted bundle diameter, mm	34.0
Twisted bundle weight, kg/m	0.775
Minimum breaking force, kN	- / 20.6

Electrical Characteristics

Parameter	Phase	Neutral
DC resistance at 25°C, Ω	0.641	0.493
Maximum allowable current, A	195	195
Short-circuit current, 1 s, kA	4.6	4.6

Markings

Phase	Neutral
A	B

Certifications

- ISO 9001:2008 – Yes

Technical Specification Sheet for the Purchase of Twisted Conductor

Manufacturer

HENAN TONG-DA CABLE CO.,LTD

Material

SIP2- 3x50+1x70+1x25mm²

Name

Conductor 3x50+1x70+1x25 mm²

Specified	Offered
Standard: SM HD626 S1:2015	Standard: SM HD626 S1:2015

Construction Characteristics

Characteristic	Specified	Offered
Insulation type	Cross-linked polyethylene	Cross-linked polyethylene
Phase/Neutral composition	AL / AlMgSi	AL / AlMgSi
Lay direction of outer layer	Right-hand lay (Z)	Right-hand lay (Z)
Maximum lay pitch, mm	1020	1020
Type of coil	[Not specified]	Wooden Drums

Dimensional Characteristics

Parameter	Phase/IP	Neutral	Phase/IP	Neutral
Cross-section, mm ²	50/25	70	50/25	70
Number of wires	7 (RMC) / 7 (RMC)	7 (RMC)	7 (RMC) / 7 (RMC)	7 (RMC)
Wire diameter, mm	7.85-8.35 / 5.7-6.1	9.45-9.95	7.85-8.35 / 5.7-6.1	9.45-9.95
Nominal insulation thickness, mm	1.5 / 1.3	1.7	1.5 / 1.3	1.7
Minimum insulation thickness, mm	1.25 / 1.07	1.34	1.25 / 1.07	1.34

Parameter	Phase/IP	Neutral	Phase/IP	Neutral
Maximum conductor diameter with insulation, mm	9.35–9.85 / 7.0–7.4	11.05–11.55	9.35–9.85 / 7.0–7.4	11.05–11.55

Twisted Bundle Characteristics

Characteristic	Value
Twisted bundle diameter, mm	31.0
Twisted bundle weight, kg/m	0.875
Minimum breaking force, kN	– / 20.6

Electrical Characteristics

Parameter	Phase	Neutral
DC resistance at 25°C, Ω	0.641 / 1.2	0.493
Maximum allowable current, A	195 / 130	195 / 130
Short-circuit current, 1 s, kA	4.6	4.6

Markings

Phase	Neutral
A	B

Certifications

- ISO 9001:2008 – Yes

Technical Specification Sheet for the Purchase of Twisted Conductor

Manufacturer

HENAN TONG-DA CABLE CO.,LTD

Material

SIP2- 3x70+1x95mm²

Name

Conductor 3x70+1x95 mm²

Specified	Offered
Standard: SM HD626 S1:2015	Standard: SM HD626 S1:2015

Construction Characteristics

Characteristic	Specified	Offered
Insulation type	Cross-linked polyethylene	Cross-linked polyethylene
Phase/Neutral composition	AL / AlMgSi	AL / AlMgSi
Lay direction of outer layer	Right-hand lay (Z)	Right-hand lay (Z)
Maximum lay pitch, mm	1170	1170
Type of coil	[Not specified]	Wooden Drums

Dimensional Characteristics

Parameter	Phase	Neutral	Phase	Neutral
Cross-section, mm ²	70	95	70	95
Number of wires	7 (RMC)	7 (RMC)	7 (RMC)	7 (RMC)
Wire diameter, mm	9.45-9.95	11.1-11.7	9.45-9.95	11.1-11.7

Parameter	Phase	Neutral	Phase	Neutral
Nominal insulation thickness, mm	1.7	1.7	1.7	1.7
Minimum insulation thickness, mm	1.25	1.34	1.25	1.34
Maximum conductor diameter with insulation, mm	10.95–11.45	12.7–13.3	10.95–11.45	12.7–13.3

Twisted Bundle Characteristics

Characteristic	Value
Twisted bundle diameter, mm	39.0
Twisted bundle weight, kg/m	1.03
Minimum breaking force, kN	– / 27.9

Electrical Characteristics

Parameter	Phase	Neutral
DC resistance at 25°C, Ω	0.443	0.363
Maximum allowable current, A	240	240
Short-circuit current, 1 s, kA	6.5	6.5

Markings

Phase	Neutral
A	B

Certifications

- ISO 9001:2008 – Yes