

**Torsion-Resistant Flexible Cable for Wind Power (Chinese industry codes of practice)**



**Application:** The product is used for turbine in the wind power generation and fixed installation in the wind tower or similar situations at the rated voltage 1.8/3KV and below.



**Operating Temperature:**

Insulation: EPR insulation or equivalent insulation materials: 70°C, 90°C.

SiR insulation or equivalent insulation mixed materials: 90°C

Sheath: Neoprene rubber or equivalent synthetic elastomer: 70°C.

Thermalplastic elastomer: 70°C, 90°C.

CSP rubber or equivalent synthetic elastomer: 90°C.

SiR or equivalent mixed materials: 90°C.

Polyurethane elastomer: 90°C.

**Lowest Environment Temperature:**

ordinary type: -25°C.

cold resistant type: -40°C.

heavy cold resistant type: -55°C.



**Bending Radius:** 6D, D= Actual outer diameter of cable (mm).



**Standard:** TICW/01-2009 (Chinese standard issued by National Center for Quality Supervision & Test of Electric Wire & Cable) or other standards required by customers.



**Packing:** Coil, steel/wooden reel, wooden reel or steel reel.

**Type and Description**

Type	Rated Voltage	Description
FDEF-25(-40)	450/750V	Copper conductor EPR insulated Neoprene rubber sheathed torsion-resistant flexible cable for wind power (cold resistant)
FDES-25(-40)	450/750V	Copper conductor EPR insulated Thermalplastic elastomer sheathed torsion-resistant flexible cable for wind power (cold resistant)
FDGG-40(-55)	0.6/1kV 1.8/3kV	Copper conductor SiR insulated SiR sheathed torsion-resistant flexible cable for wind power (heavy cold resistant)
FDGU-40(-55)	0.6/1 kV 1.8/3kV	Copper conductor SiR insulated Polyurethane elastomer sheathed torsion-resistant flexible cable for wind power (heavy cold resistant)
FDEU-40(-55)	0.6/1kV 1.8/3kV	Copper conductor EPR insulated Polyurethane elastomer sheathed torsion-resistant flexible cable for wind power (heavy cold resistant)
FDEG-40(-55)	0.6/1kV 1.8/3kV	Copper conductor EPR insulated SiR sheathed torsion-resistant flexible cable for wind power (heavy cold resistant)
FDEH-25(-40)	0.6/1kV 1.8/3kV	Copper conductor EPR insulated CSP rubber sheathed torsion-resistant flexible cable for wind power (cold resistant)
FDES-25(-40)	0.6/1kV 1.8/3kV	Copper conductor EPR insulated Thermalplastic elastomer sheathed torsion-resistant flexible cable for wind power (cold resistant)

Note: (\*) The lowest operating temperature for the cable shall be -40°C if CSP rubber sheathed cable, Neoprene rubber sheathed and Thermalplastic elastomer sheathed cable passed all low temperature test at -40°C, their type are FDEH-40, FDEF-40, FDES-40.

(\*\*) The mark "ZC" shall be added before the type letters for flame retardant cable.

**450/750V FDEF-25 (-40), FDES-25 (-40), 0.6/1KV FDGG-40 (-55), FDEG-40(-55), FDEH-25(-40), FDES-25(-40)**

No of Cores×Nominal Area of Conductor	Stranding No/Dia	Nominal Insulation Thickness	Nominal Sheath Thickness	Average Overall Diameter		Max DC Conductor Resistance at 20°C		Insulation Resistance at 20°C
				mm	mm	Ω/km	Ω/km	
No×mm <sup>2</sup>	mm	mm	mm	Min	Max	Copper	Tinned Copper	MΩ • km
1×1.5	30/0.25	0.8	1.4	5.7	7.1	13.3	13.7	150
1×2.5	49/0.25	0.9	1.4	6.3	7.9	7.98	8.21	150
1×4.0	77/0.26	1.0	1.5	7.2	9.0	4.95	5.09	150
1×6.0	84/0.30	1.0	1.6	7.9	9.8	3.30	3.39	150
1×10	84/0.40	1.2	1.8	9.5	11.9	1.91	1.95	150
1×16	126/0.40	1.2	1.9	10.8	13.4	1.21	1.24	150
1×25	196/0.40	1.4	2.0	12.7	15.8	0.780	0.795	150
1×35	276/0.40	1.4	2.2	14.3	17.9	0.554	0.565	150
1×50	396/0.40	1.6	2.4	16.5	20.6	0.386	0.393	100
1×70	360/0.50	1.6	2.6	18.6	23.3	0.272	0.277	100
1×95	475/0.50	1.8	2.8	20.8	26.0	0.206	0.210	100
1×120	608/0.50	1.8	3.0	22.8	28.6	0.161	0.164	100
1×150	756/0.50	2.0	3.2	25.2	31.4	0.129	0.132	100
1×185	925/0.50	2.2	3.4	27.6	34.4	0.106	0.108	80
1×240	1221/0.50	2.4	3.5	30.6	38.3	0.0801	0.0817	80
1×300	1525/0.50	2.6	3.6	33.5	41.9	0.0641	0.0654	80
1×400	2013/0.50	2.8	3.8	37.4	46.8	0.0486	0.0495	80
2×1	32/0.20	0.8	1.3	7.7	10.0	19.5	20.0	150
2×1.5	30/0.25	0.8	1.5	8.5	11.0	13.3	13.7	150
2×2.5	49/0.25	0.9	1.7	10.2	13.1	7.98	8.21	150
2×4.0	77/0.26	1.0	1.8	11.8	15.1	4.95	5.09	150
2×6.0	84/0.30	1.0	2.0	13.1	16.8	3.30	3.39	150
2×10	84/0.40	1.2	3.1	17.7	22.6	1.91	1.95	150
2×16	126/0.40	1.2	3.3	20.2	25.7	1.21	1.24	150
2×25	196/0.40	1.4	3.6	24.3	30.7	0.780	0.795	150
3×1	32/0.20	0.8	1.4	8.3	10.7	19.5	20.0	150
3×1.5	30/0.25	0.8	1.6	9.2	11.9	13.3	13.7	150
3×2.5	49/0.25	0.9	1.8	10.9	14.0	7.98	8.21	150
3×4.0	77/0.26	1.0	1.9	12.7	16.2	4.95	5.09	150
3×6.0	84/0.30	1.0	2.1	14.1	18.0	3.30	3.39	150
3×10	84/0.40	1.2	3.3	19.1	24.2	1.91	1.95	150
3×16	126/0.40	1.2	3.5	21.8	27.6	1.21	1.24	150
3×25	196/0.40	1.4	3.8	26.1	33.0	0.780	0.795	150
3×35	276/0.40	1.4	4.1	29.3	37.1	0.554	0.565	150
3×50	396/0.40	1.6	4.5	34.1	42.9	0.386	0.393	100

- to be continue -

No of Cores×Nominal Area of Conductor	Stranding No/Dia	Nominal Insulation Thickness	Nominal Sheath Thickness	Average Overall Diameter mm	Max DC Conductor Resistance at 20°C Ω/km	Insulation Resistance at 20°C
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No×mm <sup>2</sup>	mm	mm	mm	Min	Max	Copper	Tinned Copper	MΩ • km
3×70	360/0.50	1.6	4.8	38.4	48.3	0.272	0.277	100
3×95	475/0.50	1.8	5.3	43.3	54.0	0.206	0.210	100
3×120	608/0.50	1.8	5.6	47.4	60.0	0.161	0.164	100
3×150	756/0.50	2.0	6.0	52.0	66.0	0.129	0.132	100
3×185	925/0.50	2.2	6.4	57.0	72.0	0.106	0.108	80
3×240	1221/0.50	2.4	7.1	65.0	82.0	0.0801	0.0817	80
3×300	1525/0.50	2.6	7.7	72.0	90.0	0.0641	0.0654	80
3×4+1×2.5	77/0.26	1.0	2.0	14.0	17.9	4.95	5.09	150
3×6+1×4	84/0.30	1.0	2.3	15.7	20.0	3.30	3.39	150
3×10+1×6	84/0.40	1.2	3.4	20.9	26.5	1.91	1.95	150
3×16+1×10	126/0.40	1.2	3.6	23.5	29.6	1.21	1.24	150
3×25+1×16	196/0.40	1.4	4.0	27.9	35.6	0.780	0.795	150
3×35+1×16	276/0.40	1.4	4.3	31.0	40.1	0.554	0.565	150
3×50+1×25	396/0.40	1.6	4.8	35.7	46.0	0.386	0.393	100
3×70+1×35	360/0.50	1.6	5.0	40.7	52.0	0.272	0.277	100
3×95+1×50	475/0.50	1.8	5.5	46.4	59.0	0.206	0.210	100
3×120+1×70	608/0.50	1.8	5.8	50.0	64.0	0.161	0.164	100
3×150+1×70	756/0.50	2.0	6.3	55.0	70.0	0.129	0.132	100
3×185+1×95	925/0.50	2.2	6.8	60.0	76.0	0.106	0.108	80
4×1	32/0.20	0.8	1.5	9.2	11.9	19.5	20.0	150
4×1.5	30/0.25	0.8	1.7	10.2	13.1	13.3	13.7	150
4×2.5	49/0.25	0.9	1.9	12.1	15.5	7.98	8.21	150
4×4	77/0.26	1.0	2.0	14.0	17.9	4.95	5.09	150
4×6	84/0.30	1.0	2.3	15.7	20.0	3.30	3.39	150
4×10	84/0.40	1.2	3.4	20.9	26.5	1.91	1.95	150
4×16	126/0.40	1.2	3.6	23.8	30.1	1.21	1.24	150
4×25	196/0.40	1.4	4.1	28.9	36.6	0.780	0.795	150
4×35	276/0.40	1.4	4.4	32.5	41.1	0.554	0.565	150
4×50	396/0.40	1.6	4.8	37.7	47.5	0.386	0.393	100
4×70	360/0.50	1.6	5.2	42.7	54.0	0.272	0.277	100
4×95	475/0.50	1.8	5.9	48.4	61.0	0.206	0.210	100
4×120	608/0.50	1.8	6.0	53.0	66.0	0.161	0.164	100
4×150	756/0.50	2.0	6.5	58.0	73.0	0.129	0.132	100
4×185	925/0.50	2.2	7.0	64.0	80.0	0.106	0.108	80
4×240	1221/0.50	2.4	7.7	72.0	91.0	0.0801	0.0817	80

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No of Cores×Nominal Area of Conductor	Stranding No/Dia	Nominal Insulation Thickness	Nominal Sheath Thickness	Average Overall Diameter mm	Max DC Conductor Resistance at 20°C Ω/km	Insulation Resistance at 20°C
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No×mm <sup>2</sup>	mm	mm	mm	Min	Max	Copper	Tinned Copper	MΩ • km
4×300	1525/0.50	2.6	8.4	80.0	101.0	0.0641	0.0654	80
5×1	32/0.20	0.8	1.6	10.2	13.1	19.5	20.0	150
5×1.5	30/0.25	0.8	1.8	11.2	14.4	13.3	13.7	150
5×2.5	49/0.25	0.9	2.0	13.3	17.0	7.98	8.21	150
5×4	77/0.26	1.0	2.2	15.6	19.9	4.95	5.09	150
5×6	84/0.30	1.0	2.5	17.5	22.2	3.30	3.39	150
5×10	84/0.40	1.2	3.6	22.9	29.1	1.91	1.95	150
5×16	126/0.40	1.2	3.9	26.4	33.3	1.21	1.24	150
5×25	196/0.40	1.4	4.4	32.0	40.4	0.780	0.795	150
6×1.5	30/0.25	0.8	2.5	13.4	17.2	13.3	13.7	150
12×1.5	30/0.25	0.8	2.9	17.6	22.4	13.3	13.7	150
18×1.5	30/0.25	0.8	3.2	20.7	26.3	13.3	13.7	150
24×1.5	30/0.25	0.8	3.5	24.3	30.7	13.3	13.7	150
36×1.5	30/0.25	0.8	3.8	27.8	35.2	13.3	13.7	150
6×2.5	49/0.25	0.9	2.7	15.7	20.0	7.98	8.21	150
12×2.5	49/0.25	0.9	3.1	20.6	26.2	7.98	8.21	150
18×2.5	49/0.25	0.9	3.5	24.4	30.9	7.98	8.21	150
24×2.5	49/0.25	0.9	3.9	28.8	36.4	7.98	8.21	150
36×2.5	49/0.25	0.9	4.3	33.2	41.8	7.98	8.21	150
6×4	77/0.26	1.0	2.9	18.2	23.2	4.95	5.09	150
12×4	77/0.26	1.0	3.5	24.4	30.9	4.95	5.09	150
18×4	77/0.26	1.0	3.9	28.8	36.4	4.95	5.09	150

**Note:**

\* Type: 3×S<sub>1</sub>+1×S<sub>2</sub>. It is the data of S<sub>1</sub> (phase core), the data of S<sub>2</sub> (neutral core) can be refer to the sheet accordingly.

\*\* 6-core and above in the sheet are recommended, it also can be designed according to customers' requirement.

**1.8/3KV FDGG-40 (-55), FDEG-40(-55), FDEH-25(-40), FDES-25(-40)**

No of Cores×Nominal Area of Conductor	Stranding No/Dia	Nominal Insulation Thickness	Nominal Sheath Thickness	Average Overall Diameter mm	Max DC Conductor Resistance at 20°C Ω/km	Insulation Resistance at 20°C
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No×mm <sup>2</sup>	mm	mm	mm	Min	Max	Copper	Tinned Copper	MΩ • km
1×10	84/0.40	2.1	1.8	11.3	13.7	1.91	1.95	250
1×16	126/0.40	2.1	1.9	12.6	15.2	1.21	1.24	250
1×25	196/0.40	2.2	2.0	14.3	17.4	0.780	0.795	250
1×35	276/0.40	2.2	2.2	15.9	19.5	0.554	0.565	250
1×50	396/0.40	2.2	2.4	17.7	21.8	0.386	0.393	200
1×70	360/0.50	2.2	2.6	19.8	24.5	0.272	0.277	200
1×95	475/0.50	2.4	2.8	22.0	27.2	0.206	0.210	200
1×120	608/0.50	2.4	3.0	24.0	29.8	0.161	0.164	200
1×150	756/0.50	2.6	3.2	26.4	32.6	0.129	0.132	200
1×185	925/0.50	2.6	3.4	28.4	35.2	0.106	0.108	150
1×240	1221/0.50	2.8	3.5	31.4	39.1	0.0801	0.0817	150
1×300	1525/0.50	2.8	3.6	33.9	42.3	0.0641	0.0654	150
1×400	2013/0.50	3.0	3.8	37.8	47.2	0.0486	0.0495	150
3×10	84/0.40	2.1	3.3	23.0	28.1	1.91	1.95	250
3×16	126/0.40	2.1	3.5	25.7	31.5	1.21	1.24	250
3×25	196/0.40	2.2	3.8	29.6	36.5	0.780	0.795	250
3×35	276/0.40	2.2	4.1	32.8	40.6	0.554	0.565	250
3×50	396/0.40	2.2	4.5	36.7	45.5	0.386	0.393	200
3×70	360/0.50	2.2	4.8	41.0	50.9	0.272	0.277	200
3×95	475/0.50	2.4	5.3	45.9	56.6	0.206	0.210	200
3×120	608/0.50	2.4	5.6	50.0	62.6	0.161	0.164	200
3×150	756/0.50	2.6	6.0	54.6	68.6	0.129	0.132	200
3×185	925/0.50	2.6	6.4	58.7	73.7	0.106	0.108	150
3×240	1221/0.50	2.8	7.1	66.7	83.7	0.0801	0.0817	150

**0.6/1KV FDGU-40 (-55), FDEU-40 (-55)**

No of Cores×Nominal Area of Conductor	Stranding No/Dia	Nominal Insulation Thickness	Nominal Sheath Thickness	Average Overall Diameter mm	Max DC Conductor Resistance at 20°C Ω/km	Insulation Resistance at 20°C
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No×mm <sup>2</sup>	mm	mm	mm	Min	Max	Copper	Tinned Copper	MΩ • km
1×1.5	30/0.25	0.8	0.9	4.8	5.9	13.3	13.7	150
1×2.5	49/0.25	0.9	0.9	5.4	6.7	7.98	8.21	150
1×4.0	77/0.26	1.0	1.0	6.3	7.8	4.95	5.09	150
1×6.0	84/0.30	1.0	1.0	6.7	8.4	3.30	3.39	150
1×10	84/0.40	1.2	1.2	8.3	10.5	1.91	1.95	150
1×16	126/0.40	1.2	1.2	9.5	11.7	1.21	1.24	150
1×25	196/0.40	1.4	1.3	11.4	14.1	0.780	0.795	150
1×35	276/0.40	1.4	1.4	12.7	16.0	0.554	0.565	150
1×50	396/0.40	1.6	1.5	14.8	18.4	0.386	0.393	100
1×70	360/0.50	1.6	1.6	16.6	20.9	0.272	0.277	100
1×95	475/0.50	1.8	1.8	18.8	23.6	0.206	0.210	100
1×120	608/0.50	1.8	2.0	20.8	26.3	0.161	0.164	100
1×150	756/0.50	2.0	2.1	23.1	28.9	0.129	0.132	100
1×185	925/0.50	2.2	2.2	25.2	31.7	0.106	0.108	80
1×240	1221/0.50	2.4	2.3	28.2	35.6	0.0801	0.0817	80
1×300	1525/0.50	2.6	2.4	31.1	39.2	0.0641	0.0654	80
1×400	2013/0.50	2.8	2.5	34.9	43.8	0.0486	0.0495	80
2×1	32/0.20	0.8	0.9	6.9	9.0	19.5	20.0	150
2×1.5	30/0.25	0.8	1.0	7.6	9.8	13.3	13.7	150
2×2.5	49/0.25	0.9	1.1	9.0	11.6	7.98	8.21	150
2×4.0	77/0.26	1.0	1.2	10.6	13.7	4.95	5.09	150
2×6.0	84/0.30	1.0	1.3	11.8	15.1	3.30	3.39	150
2×10	84/0.40	1.2	2.0	15.6	19.9	1.91	1.95	150
2×16	126/0.40	1.2	2.1	17.9	22.8	1.21	1.24	150
2×25	196/0.40	1.4	2.3	21.8	27.6	0.780	0.795	150
3×1	32/0.20	0.8	0.9	7.4	9.5	19.5	20.0	150
3×1.5	30/0.25	0.8	1.0	8.0	10.4	13.3	13.7	150
3×2.5	49/0.25	0.9	1.1	9.6	12.4	7.98	8.21	150
3×4.0	77/0.26	1.0	1.2	11.3	14.5	4.95	5.09	150
3×6.0	84/0.30	1.0	1.4	12.8	16.3	3.30	3.39	150
3×10	84/0.40	1.2	2.1	16.8	21.4	1.91	1.95	150
3×16	126/0.40	1.2	2.3	19.5	24.7	1.21	1.24	150
3×25	196/0.40	1.4	2.5	23.6	29.9	0.780	0.795	150
3×35	276/0.40	1.4	2.7	26.5	33.8	0.554	0.565	150
3×50	396/0.40	1.6	2.9	30.9	39.2	0.386	0.393	100

- to be continue -

No of Cores×Nominal Area of Conductor	Stranding No/Dia	Nominal Insulation Thickness	Nominal Sheath Thickness	Average Overall Diameter mm	Max DC Conductor Resistance at 20°C Ω/km	Insulation Resistance at 20°C
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No×mm <sup>2</sup>	mm	mm	mm	Min	Max	Copper	Tinned Copper	MΩ • km
3×70	360/0.50	1.6	3.1	35.1	44.0	0.272	0.277	100
3×95	475/0.50	1.8	3.4	39.6	49.7	0.206	0.210	100
3×120	608/0.50	1.8	3.6	43.4	55.5	0.161	0.164	100
3×150	756/0.50	2.0	3.8	47.6	61.1	0.129	0.132	100
3×185	925/0.50	2.2	4.0	52.2	66.7	0.106	0.108	80
3×240	1221/0.50	2.4	4.5	59.8	76.2	0.0801	0.0817	80
3×300	1525/0.50	2.6	4.8	66.3	83.6	0.0641	0.0654	80
3×4+1×2.5	77/0.26	1.0	1.3	12.7	16.3	4.95	5.09	150
3×6+1×4	84/0.30	1.0	1.5	14.1	18.1	3.30	3.39	150
3×10+1×6	84/0.40	1.2	2.2	18.5	23.8	1.91	1.95	150
3×16+1×10	126/0.40	1.2	2.4	21.1	26.8	1.21	1.24	150
3×25+1×16	196/0.40	1.4	2.6	25.1	32.4	0.780	0.795	150
3×35+1×16	276/0.40	1.4	2.8	28.1	36.6	0.554	0.565	150
3×50+1×25	396/0.40	1.6	3.1	32.4	42.1	0.386	0.393	100
3×70+1×35	360/0.50	1.6	3.2	37.1	47.9	0.272	0.277	100
3×95+1×50	475/0.50	1.8	3.5	42.4	54.5	0.206	0.210	100
3×120+1×70	608/0.50	1.8	3.7	45.9	59.3	0.161	0.164	100
3×150+1×70	756/0.50	2.0	4.0	50.5	64.9	0.129	0.132	100
3×185+1×95	925/0.50	2.2	4.3	55.0	70.5	0.106	0.108	80
4×1	32/0.20	0.8	1.0	8.2	10.7	19.5	20.0	150
4×1.5	30/0.25	0.8	1.1	9.0	11.6	13.3	13.7	150
4×2.5	49/0.25	0.9	1.2	10.7	13.8	7.98	8.21	150
4×4	77/0.26	1.0	1.3	12.7	16.2	4.95	5.09	150
4×6	84/0.30	1.0	1.5	14.2	18.1	3.30	3.39	150
4×10	84/0.40	1.2	2.2	18.6	23.6	1.91	1.95	150
4×16	126/0.40	1.2	2.4	21.3	27.0	1.21	1.24	150
4×25	196/0.40	1.4	2.7	26.1	33.2	0.780	0.795	150
4×35	276/0.40	1.4	2.8	29.3	37.2	0.554	0.565	150
4×50	396/0.40	1.6	3.1	34.4	43.5	0.386	0.393	100
4×70	360/0.50	1.6	3.3	39.0	49.5	0.272	0.277	100
4×95	475/0.50	1.8	3.7	44.0	55.9	0.206	0.210	100
4×120	608/0.50	1.8	3.8	48.6	60.9	0.161	0.164	100
4×150	756/0.50	2.0	4.1	53.2	67.5	0.129	0.132	100
4×185	925/0.50	2.2	4.4	58.8	74.3	0.106	0.108	80
4×240	1221/0.50	2.4	4.8	66.3	84.7	0.0801	0.0817	80

- to be continue -

No of Cores×Nominal Area of Conductor	Stranding No/Dia	Nominal Insulation Thickness	Nominal Sheath Thickness	Average Overall Diameter mm	Max DC Conductor Resistance at 20°C Ω/km	Insulation Resistance at 20°C
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No×mm <sup>2</sup>	mm	mm	mm	Min	Max	Copper	Tinned Copper	MΩ • km
4×300	1525/0.50	2.6	5.2	73.6	94.0	0.0641	0.0654	80
5×1	32/0.20	0.8	1.0	9.0	11.7	19.5	20.0	150
5×1.5	30/0.25	0.8	1.1	9.8	12.8	13.3	13.7	150
5×2.5	49/0.25	0.9	1.3	11.9	15.5	7.98	8.21	150
5×4	77/0.26	1.0	1.4	14.1	18.2	4.95	5.09	150
5×6	84/0.30	1.0	1.6	15.7	20.2	3.30	3.39	150
5×10	84/0.40	1.2	2.3	20.4	26.0	1.91	1.95	150
5×16	126/0.40	1.2	2.5	23.7	30.2	1.21	1.24	150
5×25	196/0.40	1.4	2.8	28.8	36.8	0.780	0.795	150
6×1.5	30/0.25	0.8	1.6	11.6	15.4	13.3	13.7	150
12×1.5	30/0.25	0.8	1.9	15.6	20.4	13.3	13.7	150
18×1.5	30/0.25	0.8	2.1	18.5	24.1	13.3	13.7	150
24×1.5	30/0.25	0.8	2.3	21.9	28.3	13.3	13.7	150
36×1.5	30/0.25	0.8	2.5	25.2	32.6	13.3	13.7	150
6×2.5	49/0.25	0.9	1.8	13.9	18.2	7.98	8.21	150
12×2.5	49/0.25	0.9	2.1	18.6	24.2	7.98	8.21	150
18×2.5	49/0.25	0.9	2.3	22.0	28.5	7.98	8.21	150
24×2.5	49/0.25	0.9	2.6	26.2	33.8	7.98	8.21	150
36×2.5	49/0.25	0.9	2.9	30.4	39.0	7.98	8.21	150
6×4	77/0.26	1.0	1.9	16.2	21.2	4.95	5.09	150
12×4	77/0.26	1.0	2.3	22.0	28.5	4.95	5.09	150
18×4	77/0.26	1.0	2.5	26.0	33.6	4.95	5.09	150

**Note:**

\* Type: 3×S<sub>1</sub>+1×S<sub>2</sub>. It is the data of S<sub>1</sub> (phase core), the data of S<sub>2</sub> (neutral core) can be refer to the sheet accordingly.

\*\* 6-core and above in the sheet are recommended, it also can be designed according to customers' requirement.

**1.8/3KV FDGU-40 (-55), FDEU-40 (-55)**

No of Cores×Nominal Area of Conductor	Stranding No/Dia	Nominal Insulation Thickness	Nominal Sheath Thickness	Average Overall Diameter mm	Max DC Conductor Resistance at 20°C Ω/km	Insulation Resistance at 20°C
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No×mm <sup>2</sup>	mm	mm	mm	Min	Max	Copper	Tinned Copper	MΩ • km
1×10	84/0.40	2.1	1.2	10.1	12.3	1.91	1.95	250
1×16	126/0.40	2.1	1.2	11.3	13.5	1.21	1.24	250
1×25	196/0.40	2.2	1.3	13.0	15.6	0.780	0.795	250
1×35	276/0.40	2.2	1.4	14.3	17.5	0.554	0.565	250
1×50	396/0.40	2.2	1.5	16.0	19.6	0.386	0.393	200
1×70	360/0.50	2.2	1.6	17.8	22.1	0.272	0.277	200
1×95	475/0.50	2.4	1.8	20.0	24.8	0.206	0.210	200
1×120	608/0.50	2.4	2.0	22.0	27.4	0.161	0.164	200
1×150	756/0.50	2.6	2.1	24.3	30.0	0.129	0.132	200
1×185	925/0.50	2.6	2.2	26.0	32.5	0.106	0.108	150
1×240	1221/0.50	2.8	2.3	29.0	36.5	0.0801	0.0817	150
1×300	1525/0.50	2.8	2.4	31.5	39.5	0.0641	0.0654	150
1×400	2013/0.50	3.0	2.5	35.3	44.3	0.0486	0.0495	150
3×10	84/0.40	2.1	2.1	20.6	25.2	1.91	1.95	250
3×16	126/0.40	2.1	2.3	23.3	28.6	1.21	1.24	250
3×25	196/0.40	2.2	2.5	27.1	33.5	0.780	0.795	250
3×35	276/0.40	2.2	2.7	30	37.5	0.554	0.565	250
3×50	396/0.40	2.2	2.9	33.5	42.0	0.386	0.393	200
3×70	360/0.50	2.2	3.1	37.7	47.2	0.272	0.277	200
3×95	475/0.50	2.4	3.4	42.2	52.5	0.206	0.210	200
3×120	608/0.50	2.4	3.6	46	58.3	0.161	0.164	200
3×150	756/0.50	2.6	3.8	50.2	63.9	0.129	0.132	200
3×185	925/0.50	2.6	4.0	53.9	68.8	0.106	0.108	150
3×240	1221/0.50	2.8	4.5	54.6	78.2	0.0801	0.0817	150