

1 Application

For used in power transmission and distribution system, suitable for outdoor use at temperature range from -52°C to +80°C.

2 Standard & specification

Cable design comply with IEC 60502-1, IEC 60228, GOST 31996-2012, GOST 22483-2012, IEC 60332-3-22, IEC 61034, IEC 60754-2

3 Design

3.1 Conductor

Up to 2.5mm²: Tinned annealed stranded circular non-compacted copper conductor in accordance with IEC 60228 Class 2

4 to 25mm²: Plain annealed stranded circular non-compacted copper conductor in accordance with IEC 60228 Class 2

Above 25mm²: Plain annealed stranded circular compacted copper conductor in accordance with IEC 60228 Class 2

3.2 Insulation

Extruded XLPE compound comply with IEC 60502-1

Color:

2C: Brown, Blue

3C: Black, Brown, Grey

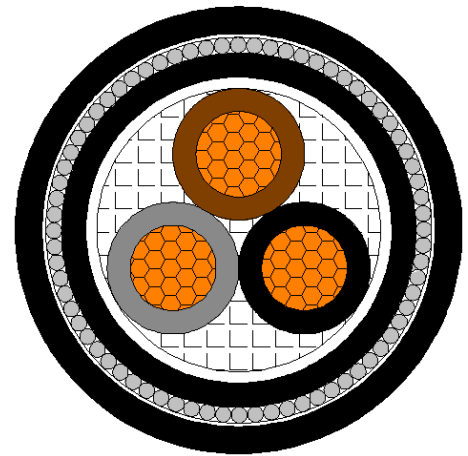
4C: Black, Brown, Grey, Blue

2C+E: Brown, Blue, Green/Yellow (Earth)

3C+E: Black, Brown, Grey, Green/Yellow (Earth)

4C+E: Black, Brown, Grey, Blue, Green/Yellow (Earth)

5 core and above: black core printed white numbers



Cable Drawing for Reference

3.3 Assembly and filler(optional)

The interstices between cores filled with non-hygroscopic polypropylene rope to form substantially circular shape with a suitable binder tape

3.4 Inner sheath

Extruded LSZH ST8 compound comply with IEC 60502-1

Color: Black

3.5 Metal amour

A layer of galvanize steel wires with suitable binder tape helically applied on the inner sheath

3.6 Outer sheath

Extruded LSZH ST8 compound comply with IEC 60502-1

Color: Black



Conductor flexibility
 Class 2



Lead free



Rated Voltage
 U₀/U (U_m)
 0.6/1 (1.2)



Max. conductor temp.in service
 90°C



Flame retardant
 IEC 60332-3-22



Smoke density
 IEC 61034



Halogen free
 IEC 60754-2

4 Cable marking-Inkjet

For example:

EAC YANGER® IEC 60332-3-22 CU/XLPE/LSZH/SWA/LSZH 2C×2.5+E 2.5 SQMM 0.6/1kV H Γ (A) - HF -52° C~+40° C YEAR ****M

Note: “****M” meter marking by inkjet with increased sequence with numbering
 “H Γ (A) - HF” at least every 1 metre appear on the cable

5 Operation condition

Rated voltage, U ₀ /U(U _m), kV	0.6/1(1.2)
Rated, operating temperature range, °C	-52~+80
Min. installation temperature without preheating, °C	-20
Max. conductor temperature in service, °C	90
Max. permissible short-circuit temperature,5 sec, °C	250
Min. bending radius, D overall diameter of cable	12D
Flame retardant	IEC 60332-3-22
Halogen Gas Emission	IEC 60754-1, < 0.5%
Low Smoke Emission	IEC 61034-1/2
UV resistant	UL 1581
Oil resistant	IEC60811(IRM 902 - 4h at 70°C, variation ±40%)
Oxygen Index (Sheath)	ASTM D 2863
Cold bend	IEC 60811-1-4, -35°C
Cold impact	IEC 60811-1-4 & CSA C22.2 No.38-10, -35°C
Chemical resistance	Accidental



Conductor flexibility
 Class 2



Lead free



Rated Voltage
 U₀/U (U_m)
 0.6/1 (1.2)



Max. conductor temp.in service
 90°C



Flame retardant
 IEC 60332-3-22



Smoke density
 IEC 61034



Halogen free
 IEC 60754-2

YANGER®

0.6/1kV
CU/XLPE/LSZH/SWA/LSZH
Power Cable

CABLE TYPE:0.6/1kV CU/XLPE/LSZH/SWA/LSZH

No.	Cable Size	Nom. cross section (Phase)	Insulation		Nom. Cross-section (Earth)	Insulation		Inner Sheath	Under armour Dia. (+/- 10%)	Steel wire	Outer Sheath	Overall Dia(+/- 10%)	Approx. Weight	DC Resistance at 20°C	Reactance	Capacitance	Short-circuit withstand capacity(1s)	Voltage drop	Test Voltage	Max. allowable Pulling tension	Current Rating		Insulation Core Color	Outer Sheath Color
			Nom. Thick.	Min. Thick.		Nom. Thick.	Min. Thick.														in air at 30°C	Underground (buries)20°C		
			mm ²	mm		mm	mm ²							mm					mm		mm	mm		
1	2C2.5+E	2.5	0.7	0.53	2.5	0.7	0.53	1.0	9.9	0.8	1.8	15.7	427	7.56	0.2901	0.2617	0.41	0.347	3500	0.5	36	30	Brown, Blue, Green/Yellow	Black
2	2C4+E	4	0.7	0.53	4	0.7	0.53	1.0	11.0	0.8	1.8	16.8	508	4.61	0.2828	0.3123	0.64	0.288	3500	0.8	49	39	Brown, Blue, Green/Yellow	Black
3	2C6+E	6	0.7	0.53	6	0.7	0.53	1.0	12.1	0.8	1.8	17.9	599	3.08	0.2774	0.3626	0.94	0.248	3500	1.2	63	49	Brown, Blue, Green/Yellow	Black
4	2C10+E	10	0.7	0.53	10	0.7	0.53	1.0	14.3	1.25	1.8	21	943	1.83	0.2704	0.4628	1.53	0.202	3500	2	86	65	Brown, Blue, Green/Yellow	Black
5	3C2.5+E	2.5	0.7	0.53	2.5	0.7	0.53	1.0	10.8	0.8	1.8	16.6	486	7.56	0.2901	0.2617	0.41	0.309	3500	0.7	32	30	Black, Brown, Grey, Green/Yellow	Black
6	3C4+E	4	0.7	0.53	4	0.7	0.53	1.0	12.0	0.8	1.8	17.8	583	4.61	0.2828	0.3123	0.64	0.247	3500	1.1	42	39	Black, Brown, Grey, Green/Yellow	Black
7	3C6+E	6	0.7	0.53	6	0.7	0.53	1.0	13.2	1.25	1.8	19.9	829	3.08	0.2774	0.3626	0.94	0.213	3500	1.6	54	49	Black, Brown, Grey, Green/Yellow	Black
8	3C10+E	10	0.7	0.53	10	0.7	0.53	1.0	15.7	1.25	1.8	22.4	1097	1.83	0.2704	0.4628	1.53	0.176	3500	2.7	75	65	Black, Brown, Grey, Green/Yellow	Black
9	3C16+E	16	0.7	0.53	16	0.7	0.53	1.0	18.3	1.6	1.8	25.7	1580	1.15	0.2654	0.5726	2.29	0.149	3500	4.4	100	84	Black, Brown, Grey, Green/Yellow	Black
10	3C25+E	25	0.9	0.71	16	0.7	0.53	1.0	20.7	1.6	1.8	28.1	1953	0.727/1.15	0.2671	0.5294	3.58	0.144	3500	6.2	127	107	Black, Brown, Grey, Green/Yellow	Black
11	4C2.5+E	2.5	0.7	0.53	2.5	0.7	0.53	1.0	11.8	0.8	1.8	17.6	544	7.56	0.2901	0.2617	0.41	0.309	3500	0.9	32	30	Black, Brown, Grey, Blue, Green/Yellow	Black
12	4C4+E	4	0.7	0.53	4	0.7	0.53	1.0	13.1	1.25	1.8	19.8	798	4.61	0.2828	0.3123	0.64	0.247	3500	1.4	42	39	Black, Brown, Grey, Blue, Green/Yellow	Black
13	4C6+E	6	0.7	0.53	6	0.7	0.53	1.0	14.5	1.25	1.8	21.2	945	3.08	0.2774	0.3626	0.94	0.213	3500	2	54	49	Black, Brown, Grey, Blue, Green/Yellow	Black
14	4C10+E	10	0.7	0.53	10	0.7	0.53	1.0	17.2	1.25	1.8	23.9	1256	1.83	0.2704	0.4628	1.53	0.176	3500	3.4	75	65	Black, Brown, Grey, Blue, Green/Yellow	Black
15	4C16+E	16	0.7	0.53	16	0.7	0.53	1.0	20.2	1.6	1.8	27.6	1824	1.15	0.2654	0.5726	2.29	0.149	3500	5.4	100	84	Black, Brown, Grey, Blue, Green/Yellow	Black
16	4C25+E	25	0.9	0.71	16	0.7	0.53	1.0	23.6	1.6	1.8	31.0	2355	0.727/1.15	0.2671	0.5294	3.58	0.123	3500	7.9	127	107	Black, Brown, Grey, Blue, Green/Yellow	Black
17	4C50+E	50	1.0	0.80	25	0.9	0.71	1.2	30.1	2.0	2.1	38.9	3936	0.387/0.727	0.2631	0.6433	7.15	0.107	3500	15.3	192	153	Black, Brown, Grey, Blue, Green/Yellow	Black
18	6C2.5+E	2.5	0.7	0.53	2.5	0.7	0.53	1.0	12.8	1.25	1.8	19.5	758	7.56	0.2901	0.2617	0.41	0.309	3500	1.2	32	30	black core printed white numbers+Y/G	Black
19	2C1.5	1.5	0.7	0.53	/	/	/	1.0	8.6	0.8	1.8	14.4	345	12.2	0.3007	0.2124	0.26	0.405	3500	0.2	26	23	Brown, Blue	Black
20	7C1.5	1.5	0.7	0.53	/	/	/	1.0	11.6	0.8	1.8	17.4	528	12.2	0.3007	0.2124	0.26	0.358	3500	0.7	23	23	black core printed white numbers	Black

YANGER®

0.6/1kV
CU/XLPE/LSZH/SWA/LSZH
Power Cable

CABLE TYPE:0.6/1kV CU/XLPE/LSZH/SWA/LSZH0

No.	Cable Size	Nom. cross section (Phase)	Insulation		Nom. Cross-section (Earth)	Insulation		Inner Sheath	Under armour Dia. (+/- 10%)	Steel wire	Outer Sheath	Overall Dia(+/- 10%)	Approx. Weight	DC Resistance at 20°C	Reactance	Capacitance	Short-circuit withstand capacity(1s)	Voltage drop	Test Voltage	Max. allowable Pulling tension	Current Rating		Insulation Core Color	Outer Sheath Color
			Phase / Earth	5 mins		in air at 30°C	Underground (buries)20°C																	
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21	3C2.5	2.5	0.7	0.53	2.5	0.7	0.53	1.0	9.9	0.8	1.8	15.7	427	7.56	0.2901	0.2617	0.41	0.347	3500	0.5	36	30	Black, Brown, Grey	Black
22	3C4	4	0.7	0.53	4	0.7	0.53	1.0	11.0	0.8	1.8	16.8	508	4.61	0.2828	0.3123	0.64	0.288	3500	0.8	49	39	Black, Brown, Grey	Black
23	3C6	6	0.7	0.53	6	0.7	0.53	1.0	12.1	0.8	1.8	17.9	599	3.08	0.2774	0.3626	0.94	0.248	3500	1.2	63	49	Black, Brown, Grey	Black