

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

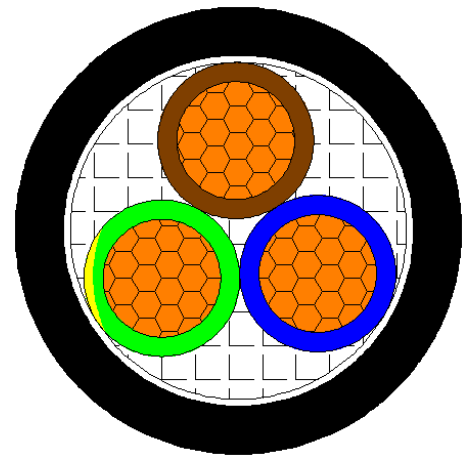
4C: Black, Brown, Grey, Blue

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 Outer sheath

Extruded LSZH ST8 compound comply with IEC 60502-1

Color: Black



Conductor flexibility
 Class 2



Lead free



Rated Voltage
 U₀/U (Um)
 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 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	15D
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

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

No.	Cable Size	Nom. cross section (Phase)	Insulation		Nom. Cross-section (Earth)	Insulation		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.				Phase / Earth					5 mins		in air at 30°C	Underground (buries)20°C		
			mm	mm		mm	mm				Ω/km					Ω/km		V	A		
1	2C2.5+E	2.5	0.7	0.53	2.5	0.7	0.53	1.8	12.1	186	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	1.8	13.2	245	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	1.8	14.3	312	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	1.8	16.5	461	1.83	0.2704	0.4628	1.53	0.202	3500	2.0	86	65	Brown, Blue, Green/Yellow	Black
5	2C16+E	16	0.7	0.53	16	0.7	0.53	1.8	18.8	659	1.15	0.2654	0.5726	2.29	0.171	3500	3.3	115	84	Brown, Blue, Green/Yellow	Black
6	3C2.5+E	2.5	0.7	0.53	2.5	0.7	0.53	1.8	13.0	223	7.56	0.2901	0.2617	0.41	0.309	3500	0.7	32	30	Black, Brown, Grey, Green/Yellow	Black
7	3C4+E	4	0.7	0.53	4	0.7	0.53	1.8	14.2	297	4.61	0.2828	0.3123	0.64	0.247	3500	1.1	42	39	Black, Brown, Grey, Green/Yellow	Black
8	3C6+E	6	0.7	0.53	6	0.7	0.53	1.8	15.4	384	3.08	0.2774	0.3626	0.94	0.213	3500	1.6	54	49	Black, Brown, Grey, Green/Yellow	Black
9	3C10+E	10	0.7	0.53	10	0.7	0.53	1.8	17.9	576	1.83	0.2704	0.4628	1.53	0.176	3500	2.7	75	65	Black, Brown, Grey, Green/Yellow	Black
10	3C16+E	16	0.7	0.53	16	0.7	0.53	1.8	20.5	833	1.15	0.2654	0.5726	2.29	0.149	3500	4.4	100	84	Black, Brown, Grey, Green/Yellow	Black
11	4C2.5+E	2.5	0.7	0.53	2.5	0.7	0.53	1.8	14.0	264	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	1.8	15.3	353	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	1.8	16.7	461	3.08	0.2774	0.3626	0.94	0.213	3500	2.0	54	49	Black, Brown, Grey, Blue, Green/Yellow	Black
14	4C10+E	10	0.7	0.53	10	0.7	0.53	1.8	19.4	696	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	1.8	22.4	1017	1.15	0.2654	0.5726	2.29	0.149	3500	5.4	100	84	Black, Brown, Grey, Blue, Green/Yellow	Black
16	6C2.5+E	2.5	0.7	0.53	2.5	0.7	0.53	1.8	15.0	325	7.56	0.2901	0.2617	0.41	0.309	3500	1.2	32	30	black core printed white numbers +Y/G	Black
17	3C25+E	25	0.9	0.71	16	0.7	0.53	1.8	22.9	1126	0.727/1.15	0.2671	0.5294	3.58	0.144	3500	6.2	127	107	Black, Brown, Grey, Green/Yellow	Black
18	2C1.5	1.5	0.7	0.53	/	/	/	1.8	10.8	129	12.2	0.3007	0.2124	0.26	0.405	3500	0.2	26	23	Brown, Blue	Black

YANGER®

0.6/1kV
CU/XLPE/LSZH
Power Cable

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19	7C1.5	1.5	0.7	0.53	1.5	0.7	0.53	1.8	13.8	249	12.2	0.3007	0.2124	0.26	0.358	3500	0.7	23	23	black core printed white numbers	Black
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