

1 Application

For used in light fitting, and in switching and control equipment. 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 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: Natural

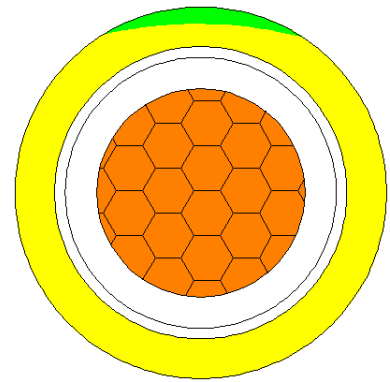
3.3 Binder Tape

Non-hygroscopic tape wrapped around the insulated core

3.4 Outer sheath

Extruded LSZH ST8 compound comply with IEC 60502-1

Color: Yellow with a green strip



Cable Drawing for Reference



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 1C×16 SQMM 0.6/1kV H Γ (A) – HF -52°C~+40°C 2020 ****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	20D
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



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Smoke density
IEC 61034



Halogen free
IEC 60754-2

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

No.	Nom. cross section (Phase)	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.								5 mins		in air at 30°C	Underground (buries)20°C		
	mm ²	mm	mm	mm	mm	kg/km	Ω/km	Ω/km	μF/km	kA	V/m	V	KN	A	A		
1	4	0.7	0.53	1.4	7.3	83	4.61	0.3167	0.3123	0.64	0.23	3500	0.3	45	39	Natural	Yellow with a green strip
2	6	0.7	0.53	1.4	7.8	104	3.08	0.3084	0.3626	0.94	0.193	3500	0.4	59	49	Natural	Yellow with a green strip
3	10	0.7	0.53	1.4	8.8	151	1.83	0.2966	0.4628	1.53	0.153	3500	0.7	80	65	Natural	Yellow with a green strip
4	16	0.7	0.53	1.4	9.9	213	1.15	0.2879	0.5726	2.29	0.126	3500	1.1	108	84	Natural	Yellow with a green strip
5	25	0.9	0.71	1.4	11.2	307	0.727	0.2864	0.5294	3.58	0.104	3500	1.7	135	107	Natural	Yellow with a green strip
6	35	0.9	0.71	1.4	12.2	404	0.524	0.2816	0.6069	5.01	0.094	3500	2.4	169	129	Natural	Yellow with a green strip
7	50	1.0	0.80	1.4	13.7	527	0.387	0.2782	0.6433	7.15	0.087	3500	3.4	207	153	Natural	Yellow with a green strip
8	70	1.1	0.89	1.4	15.3	729	0.268	0.2487	0.6795	10.02	0.08	3500	4.8	268	188	Natural	Yellow with a green strip
9	95	1.1	0.89	1.5	17.2	981	0.193	0.2456	0.7871	13.59	0.079	3500	6.5	328	226	Natural	Yellow with a green strip
10	120	1.2	0.98	1.5	18.8	1221	0.153	0.2361	0.8082	17.17	0.079	3500	8.2	383	257	Natural	Yellow with a green strip
11	150	1.4	1.16	1.6	20.8	1495	0.124	0.2363	0.7717	21.46	0.082	3500	10.2	444	287	Natural	Yellow with a green strip
12	185	1.6	1.34	1.6	22.9	1857	0.0991	0.2355	0.7574	26.47	0.087	3500	12.6	510	324	Natural	Yellow with a green strip
13	240	1.7	1.43	1.7	25.7	2404	0.0754	0.2338	0.815	34.34	0.095	3500	16.3	607	375	Natural	Yellow with a green strip
14	300	1.8	1.52	1.8	28.3	2992	0.0601	0.2327	0.8585	42.93	0.103	3500	20.4	703	419	Natural	Yellow with a green strip