

**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**

Plain annealed stranded circular copper conductor in accordance with IEC 60228 Class 2

**3.2 Insulation**

Extruded XLPE compound comply with IEC 60502-1

Color:

Pair: Brown, Grey

3G: Brown, Light Blue, Green/Yellow (Earth)

5G and above: black core printed white numbers and Green/Yellow (Earth)

**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

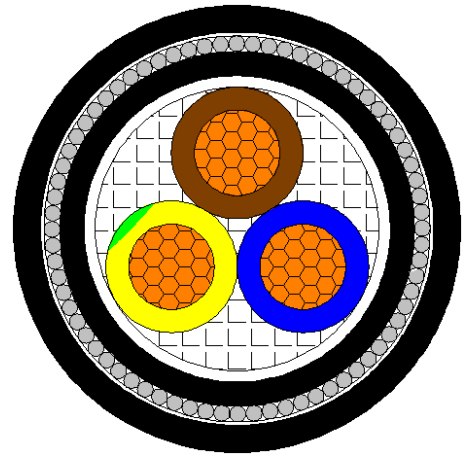
**3.5 Metal amour**

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



Cable Drawing for Reference



Conductor flexibility  
 Class 2



Lead free



Rated Voltage  
 U<sub>0</sub>/U (U<sub>m</sub>)  
 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 3G×2.5 SQMM 0.6/1kV Н Г (А) - HF Project Cable Code -52° C~+40° C YEAR \*\*\*\*M

Note: "\*\*\*\*M" meter marking by inkjet with increased sequence with numbering "Н Г (А) - HF" at least every 1 metre appear on the cable

**5 Operation condition**

Rated voltage, U <sub>0</sub> /U(U <sub>m</sub> ), kV	0.6/1(1.2)
Rated, operating temperature range, °C	-52~+80
Min. installation temperature without preheating, °C	-30
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 @ 70°C, variation ±40%)
Oxygen Index (Sheath)	ASTM D 2863
Cold bend	IEC 60811-1-4, -52°C
Cold impact	IEC 60811-1-4 & CSA C22.2 No.38-10, -52°C
Chemical resistance	Accidental



Conductor flexibility  
 Class 2



Lead free



Rated Voltage  
 U<sub>0</sub>/U (U<sub>m</sub>)  
 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/SWA/LSZH**

No.	Project Cable Code	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	AC Resistance at 90°C (50Hz)	Test Voltage		Current Rating	Insulation Core Color	Outer Sheath Color
				Nom. Thick.	Min. Thick.		Nom. Thick.	Min. Thick.			Nom. Dia.	Nom. Thick.			Phase / Earth		5 mins	in air at 30°C			
				mm <sup>2</sup>	mm		mm	mm <sup>2</sup>			mm	mm			mm		mm	mm			
1	01PP-S25-NFHNW	1x2x2.5	2.5	0.7	0.53	/	/	/	1.0	9.4	0.8	1.8	15.2	391	7.41	9.48	3500	36	Brown, Grey	Black	
2	01PP-S40-NFHNW	1x2x4	4	0.7	0.53	/	/	/	1.0	10.4	0.8	1.8	16.2	452	4.61	5.9	3500	49	Brown, Grey	Black	
3	02PG-S25-NFHNW	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	7.41	9.48	3500	36	Brown, Light Blue, Yellow/Green	Black	
4	02PG-S40-NFHNW	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	5.9	3500	49	Brown, Light Blue, Yellow/Green	Black	