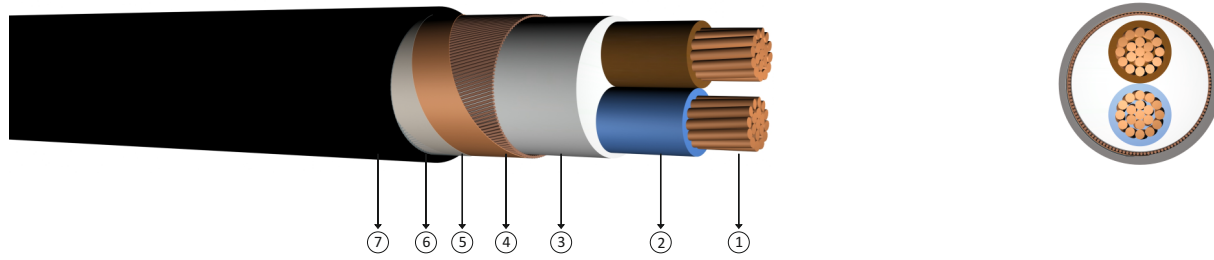




## 0.6/1 kV halogen free, flame retardant, XLPE insulated concentric conductor screened, multi core cables with copper conductor



**Code:** YXCZ1-U, YXCZ1-R, N2XCH

U: Solid conductor  
R: Stranded Conductor

O: Yellow / green veinless  
J: Yellow / green core

**Standards:** HD 604 S1, VDE 0276 - 604, IEC 60502-1

### Technical Data

Max. operating temperature : 90 °C  
 Max. short circuit temperature : 250 °C (max. 5 sec.)  
 Rated voltage : 0.6/1 kV  
 Min. bending radius : 15 x D  
 D : Cable outer diameter

### Application

These cables have a low dielectric loss, Indoor installations, in cable ducts, outdoor and underground for power stations, industrial plants and switching stations as well as local supply systems if increased protection is necessary. In case of mechanical damage the screen prevents any damage due to power leak to the surrounding area.

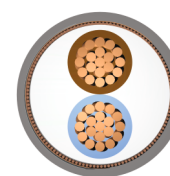
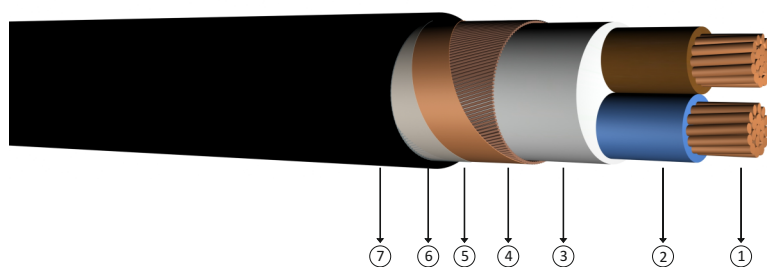
### Construction

- ① Solid or stranded copper conductor
- ② XLPE insulation
- ③ Filler
- ④ Concentric copper wire
- ⑤ Copper tape as binder
- ⑥ Polyester tape
- ⑦ HFFR outer jacket

DIMENSION AND WEIGHTS			ELECTRICAL PROPERTIES			
Nominal Cross Section	Overall Diameter (approx)	Net Weight (approx)	Delivery Length	DC Conductor Resistance at 20 °C Max	Current Carrying Capacity (A)	
mm <sup>2</sup>	mm	kg/km	m	ohm/km	In ground at 20 °C	In air at 30 °C
2x1.5/1.5	12,5	240	1000	12,1	39	32
2x2.5/2.5	13,0	270	1000	7,41	51	42
2x4/4	14,5	300	1000	4,61	66	56
2x6/6	15,5	400	1000	3,08	82	71
2x10/10	17,0	500	1000	1,83	109	96
2x16/16	19,0	750	1000	1,15	115	125
3x1.5/1.5	13,0	200	1000	12,1	30	24
3x2.5/2.5	13,5	300	1000	7,41	40	32
3x4/4	15,0	390	1000	4,61	52	42
3x6/6	16,0	500	1000	3,08	64	53
3x10/10	18,5	750	1000	1,83	86	73
3x16/16	20,5	1000	1000	1,15	111	96
3x25/16	24,0	1350	1000	0,727	143	130
3x35/16	26,0	1670	1000	0,524	173	160
3x50/25	29,0	2200	1000	0,387	205	195

Note : Current carrying capacities are valid under the following conditions:  
 In ground : 20 °C, 70 cm depth of lay, soil-thermal resistivity 1 K.m/W, load factor 0.7  
 In air : 30 °C, load factor 1.0  
 Number of system : 1

## 0.6/1 kV halogen free, flame retardant, XLPE insulated concentric conductor screened, multi core cables with copper conductor



Code: YXCZ1-U, YXCZ1-R, N2XCH

U: Solid conductor                      O: Yellow / green veinless  
R: Stranded Conductor Rigid        J : Yellow / green core                      **Standards:** HD 604 S1, VDE 0276 - 604, IEC 60502-1

### Technical Data

Max. operating temperature        : 90 °C  
Max. short circuit temperature    : 250 °C (max. 5 sec.)  
Rated voltage                            : 0.6/1 kV  
Min. bending radius                 : 15 x D  
D    : Cable outer diameter

### Application

These cables have a low dielectric loss, Indoor installations, in cable ducts, outdoor and underground for power stations, industrial plants and switching stations as well as local supply systems if increased protection is necessary. In case of mechanical damage the screen prevents any damage due to power leak to the surrounding area.

### Construction

- 1 Solid or stranded copper conductor    3 Filler    5 Copper tape as binder ( 100% overlap)
- 2 XLPE insulation                            4 Concentric copper wire    6 Polyester tape                                7 HFFR outer jacket

DIMENSION AND WEIGHTS			ELECTRICAL PROPERTIES			
Nominal Cross Section	Overall Diameter (approx)	Net Weight (approx)	Delivery Length	DC Conductor Resistance at 20 °C Max	Current Carrying Capacity (A)	
mm <sup>2</sup>	mm	kg/km	m	ohm/km	In ground at 20 °C	In air at 30 °C
2x1.5/9	13,0	280	1000	12,1	39	32
2x2.5/9	13,5	310	1000	7,41	51	42
2x4/9	14,0	370	1000	4,61	66	56
2x6/9	15,0	450	1000	3,08	82	71
2x10/9	17,0	580	1000	1,83	109	96
3x1,5/9	13,5	300	1000	12,1	30	24
3x2,5/9	14,0	340	1000	7,41	40	32
3x4/9	15,0	410	1000	4,61	52	42
3x6/9	16,0	510	1000	3,08	64	53
3x10/9	18,5	670	1000	1,83	86	73
4x1,5/9	14,0	330	1000	12,1	30	24
4x2,5/9	15,0	380	1000	7,41	40	32
4x4/9	16,0	470	1000	4,61	52	42
4x6/9	18,0	590	1000	3,08	64	53
4x10/9	20,0	790	1000	1,83	86	73
5x1,5/9	15,0	360	1000	12,1	30	24
5x2,5/9	16,0	410	1000	7,41	40	32
5x4/9	17,0	520	1000	4,61	52	42

Note  
In ground                                : Current carrying capacities are valid under the following conditions;  
    : 20 °C, 70 cm depth of lay, soil-thermal resistivity 1 K.m/W, load factor 0.7  
In air                                        : 30 °C, load factor 1.0  
Number of system                      : 1