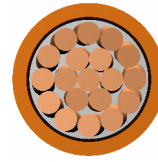




## 0.6/1 kV halogen free, flame retardant, XLPE insulated single core cables with copper conductor FE 180



**Code:** YXZ1-U, YXZ1-R, N2XH FE 180

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

### 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                 : 12 x D  
 D     : Cable outer diameter

### Application

Used in energy networks in refineries, mines, hotels, schools, tunnels, high constructions, hospitals, power plant, data processing centers, business centers where there is a risk of fire.

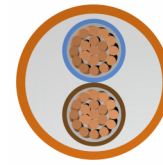
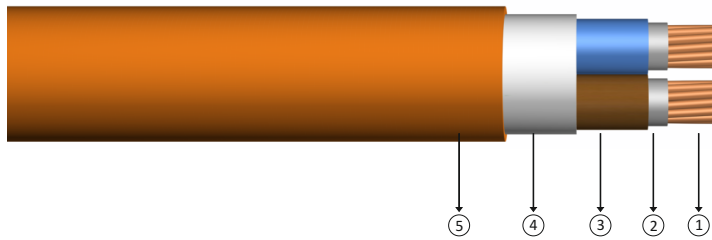
### Construction

- 1 Solid or stranded copper conductor    3 XLPE insulation
- 2 Mica tape.                                    4 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	
					***	**	***	**
1x1,5	6.0	50	1000	12,1	39	32	32	25
1x2,5	6.5	65	1000	7,41	51	43	42	34
1x4	6.9	80	1000	4,61	66	55	56	44
1x6	7.4	100	1000	3,08	82	68	71	57
1x10	8.6	150	1000	1,83	109	90	96	77
1x16	9.7	200	1000	1,15	139	115	128	102
1x25	11.0	300	1000	0,727	179	149	173	139
1x35	12.0	400	1000	0,524	213	178	212	170
1x50	13.0	530	1000	0,387	251	211	258	208
1x70	15.0	750	1000	0,268	307	259	328	265
1x95	17.0	1000	1000	0,193	366	310	404	326
1x120	18.5	1250	1000	0,153	416	352	471	381
1x150	20.5	1500	1000	0,124	465	396	541	438
1x185	22.5	1900	1000	0,0991	526	449	626	507
1x240	25.5	2450	1000	0,0754	610	521	749	606
1x300	29.0	3000	1000	0,0601	689	587	864	697
1x400	33.0	3900	1000	0,0470	788	669	1018	816
1x500	37.5	4900	1000	0,0366	889	748	1173	933

Note  
 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  
 \*\*\* : Flat formation, clearance between cables; in air = 1 x Cable outer diameter, in ground = 7 cm  
 \*\* : Trefoil formation  
 Number of system : 1

# 0.6/1 kV halogen free, flame retardant, XLPE insulated multi core cables with copper conductor FE 180



**Code:** YXZ1-U, YXZ1-R, N2XH FE 180

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

### 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                 : 12 x D  
D    : Cable outer diameter

### Application

Used in energy networks in refineries, mines, hotels, schools, tunnels, high constructions, hospitals, power plant, data processing centers, business centers where there is a risk of fire.

### Construction

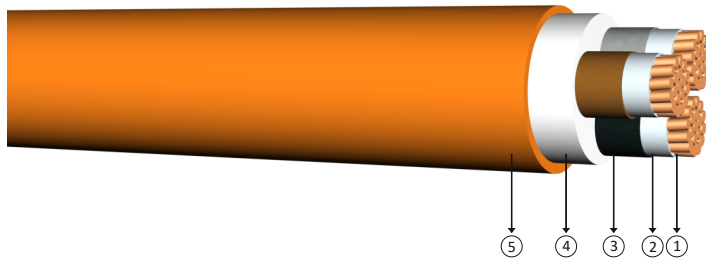
- 1 Solid or stranded copper conductor
- 2 Mica tape
- 3 XLPE insulation
- 4 Filler
- 5 HFFR outer jacket

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	11,0	170	1000	12,1	39	32
2x2,5	12,0	200	1000	7,41	51	42
2x4	13,0	260	1000	4,61	66	56
2x6	14,0	320	1000	3,08	82	71
2x10	16,2	460	1000	1,83	109	96
2x16	18,3	630	1000	1,15	115	125
2x25	23,0	1000	1000	0,727	145	155
2x35	24,0	1250	1000	0,524	175	195
2x50	27,0	1600	1000	0,387	210	235
2x70	31,0	2200	1000	0,268	255	300
2x95	35,0	2900	1000	0,193	310	370
2x120	39,0	3600	1000	0,153	355	430
2x150	42,0	4400	1000	0,124	400	490
2x185	47,0	5500	1000	0,0991	455	570
2x240	53,0	7050	500	0,0754	530	680
2x300	58,0	8650	500	0,0601	605	785
2x400	65,0	11100	500	0,0470	690	860

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



## 0.6/1 kV halogen free, flame retardant, XLPE insulated multi core cables with copper conductor FE 180



Code: YXZ1-U, YXZ1-R, N2XH FE 180

U: Solid conductor      O: Yellow / green veinless  
R: Stranded Conductor Rigid      J : Yellow / green core

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

### 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 : 12 x D  
D : Cable outer diameter

### Application

Used in energy networks in refineries, mines, hotels, schools, tunnels, high constructions, hospitals, power plant, data processing centers, business centers where there is a risk of fire.

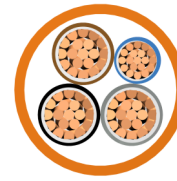
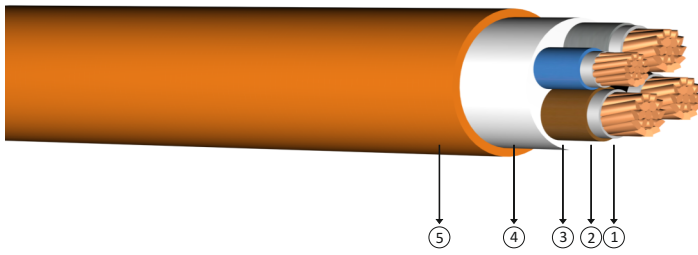
### Construction

- 1 Solid or stranded copper conductor
- 2 Mica tape
- 3 XLPE insulation
- 4 Filler
- 5 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
3x1,5	11,5	190	1000	12,1	30	24
3x2,5	12,5	230	1000	7,41	40	32
3x4	13,5	300	1000	4,61	52	42
3x6	14,5	370	1000	3,08	64	53
3x10	17,0	550	1000	1,83	86	73
3x16	19,0	750	1000	1,15	111	96
3x25	24,0	1200	1000	0,727	143	130
3x35	26,0	1550	1000	0,524	173	160
3x50	29,0	2000	1000	0,387	205	195
3x70	33,0	2800	1000	0,268	252	247
3x95	37,0	3700	1000	0,193	303	305
3x120	41,0	4600	1000	0,153	346	355
3x150	46,0	5650	500	0,124	390	407
3x185	50,0	7000	500	0,0991	441	469
3x240	57,0	9100	500	0,0754	511	551
3x300	62,0	11100	250	0,0601	580	638
3x400	70,0	14300	250	0,0470	663	746

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 multi core cables with copper conductor FE 180



**Code:** YXZ1-R, N2XH FE 180

O: Yellow / green veinless    J : Yellow / green core  
R: Stranded Conductor Rigid

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

### 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 : 12 x D  
D : Cable outer diameter

### Application

Used in energy networks in refineries, mines, hotels, schools, tunnels, high constructions, hospitals, power plant, data processing centers, business centers where there is a risk of fire.

### Construction

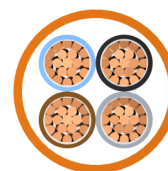
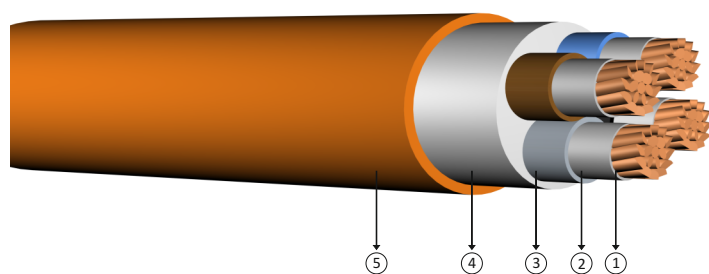
- 1 Stranded copper conductors
- 2 Mica tape
- 3 XLPE insulation
- 4 Filler
- 5 HFFR outer jacket

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
3x16+10	21,0	900	1000	1,15	111	96
3x25+16	26,0	1450	1000	0,727	143	130
3x35+16	27,0	1800	1000	0,524	173	160
3x50+25	30,0	2350	1000	0,387	205	195
3x70+35	35,0	3200	1000	0,268	252	247
3x95+50	39,0	4300	1000	0,193	303	305
3x120+70	44,0	5400	500	0,153	346	355
3x150+70	48,0	6450	500	0,124	390	407
3x185+95	53,0	8100	500	0,0991	441	469
3x240+120	59,0	10400	500	0,0754	511	551
3x300+150	65,0	12800	250	0,0601	580	638
3x400+185	73,0	16300	250	0,0470	663	746

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 multi core cables with copper conductor FE 180



**Code:** YXZ1-U, YXZ1-R, N2XH-O FE 180

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

### 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 : 12 x D  
D : Cable outer diameter

### Application

Used in energy networks in refineries, mines, hotels, schools, tunnels, high constructions, hospitals, power plant, data processing centers, business centers where there is a risk of fire.

### Construction

- 1 Solid or stranded copper conductor      3 XLPE insulation      5 HFFR outer jacket
- 2 Mica tape      4 Filler

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
4x1,5	12,0	220	1000	12,1	30	24
4x2,5	13,0	250	1000	7,41	40	32
4x4	14,5	350	1000	4,61	52	42
4x6	15,5	450	1000	3,08	64	53
4x10	18,5	700	1000	1,83	86	73
4x16	20,5	950	1000	1,15	111	96
4x25	26,0	1500	1000	0,727	143	130
4x35	28,0	1900	1000	0,524	173	160
4x50	32,0	2500	1000	0,387	205	195
4x70	37,0	3500	1000	0,268	252	247
4x95	41,0	4700	1000	0,193	303	305
4x120	46,0	5900	500	0,153	346	355
4x150	51,0	7200	500	0,124	390	407
4x185	56,0	8950	500	0,0991	441	469
4x240	63,0	11600	250	0,0754	511	551
4x300	69,0	14200	250	0,0601	580	638
4x400	78,0	18400	250	0,0470	663	746

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