



Code

YAXZ2Z1 FE 180 , NA2XRH FE 180 **AL/MICA/XLPE/SWA/HFFR**

YAXZ2(a)Z1 FE 180 , NA2XR(a)H FE 180 **AL/MICA/XLPE/AWA/HFFR**

Voltage Rating

0.6/1 kV

Standards

TS IEC 60502-1 , VDE 0276

IEC 60228

EN 61034

EN 50267

EN 60332-3

IEC 60331-21

Conductor

Smoke Density

Halogen Free

Flame Retardant (Cat C)

Circuit Integrity

Reaction to Fire Classification (CPR)

EN 60332-1-2

Flame Retardant

Conductor

Stranded Aluminum Conductor (Class 2)

Separator

Mica Tape

Insulation

XLPE (Cross-linked Polyethylene)

Filler

Halogen Free Filler

Armour

Round Steel Wire (Aluminium Wire for One Core Cables)

Sheath

Halogen Free Sheath

Technical Data

Max. Operating Temperature	:	90°C
Short Circuit Temperature	:	250°C (max.5 sec)
Bending Radius	:	15D (D : Overall Diameter)
Test Voltage	:	3,5 kV

Application:

For installation indoors and outdoors, in cable ducts, underground , in power or switching stations, local energy distribution industrial plants, where there is no risk of mechanical damage. Suitable for comparatively high maximum permissible conductor temperature.

Nominal Cross Section (mm ²)	Overall Diameter (mm)	Net Weight (kg/km)	Delivery Length (m)	Resistance at 20°C (ohm/km)	Current Carrying Capacity	
					In Ground at 20°C	In Air at 30°C
1x10*	12,6	221,0	1000	3,08	-	-
1x16*	13,6	261,2	1000	1,91	-	-
1x25*	15,1	323,6	1000	1,20	116	112
1x35*	17,1	409,9	1000	0,868	138	137
1x50*	18,5	483,9	1000	0,641	164	169
1x70*	20,5	602,6	1000	0,443	201	214
1x95*	22,8	751,9	1000	0,320	240	263
1x120*	24,3	861,1	1000	0,253	272	308
1x150*	26,7	1033,9	1000	0,206	303	349
1x185*	29,0	1233,7	1000	0,164	340	401
1x240*	31,6	1481,4	500	0,125	387	469
1x300*	35,6	1886,7	500	0,100	430	535
1x400*	39,2	2330,0	500	0,0778	479	615

Nominal Cross Section (mm ²)	Overall Diameter (mm)	Net Weight (kg/km)	Delivery Length (m)	Resistance at 20°C (ohm/km)	Current Carrying Capacity	
					In Ground at 20°C	In Air at 30°C
2x10	18,9	678,8	1000	3,08	-	-
2x16	20,8	824,3	1000	1,91	-	-
2x25	24,7	1203,6	1000	1,20	113	104
2x35	26,8	1419,7	1000	0,868	136	128
2x50	29,8	1705,5	1000	0,641	159	152
2x70	35,1	2356,3	500	0,443	197	194
2x95	38,7	2848,6	500	0,320	236	239
2x120	42,0	3371,6	500	0,253	269	278
2x150	48,7	4447,3	500	0,206	302	316
2x185	53,3	5350,8	250	0,164	342	365
2x240	58,4	6306,3	250	0,125	397	430

Nominal Cross Section (mm ²)	Overall Diameter (mm)	Net Weight (kg/km)	Delivery Length (m)	Resistance at 20°C (ohm/km)	Current Carrying Capacity	
					In Ground at 20°C	In Air at 30°C
3x10	19,7	744,2	1000	3,08	-	-
3x16	22,6	985,2	1000	1,91	-	-
3x25	25,9	1325,8	1000	1,20	113	104
3x35	28,3	1583,8	1000	0,868	136	128
3x50	31,5	1902,3	1000	0,641	159	152
3x70	37,6	2674,2	1000	0,443	197	194
3x95	41,1	3196,3	500	0,320	236	239
3x120	45,8	4139,2	500	0,253	269	278
3x150	51,7	5064,1	500	0,206	302	316
3x185	56,7	5993,2	250	0,164	342	365
3x240	62,6	7105,7	250	0,125	397	430
3x300	68,6	8265,4	250	0,100	454	506

Nominal Cross Section (mm ²)	Overall Diameter (mm)	Net Weight (kg/km)	Delivery Length (m)	Resistance at 20°C (ohm/km)	Current Carrying Capacity	
					In Ground at 20°C	In Air at 30°C
3x16+10	23,6	1117,4	1000	1,91 - 3,08	-	-
3x25+16	27,1	1411,8	1000	1,20 - 1,91	113	104
3x35+16	29,1	1650,7	1000	0,868 - 1,91	136	128
3x50+25	33,7	2189,0	1000	0,641 - 1,20	159	152
3x70+35	38,8	2858,8	500	0,443 - 0,868	197	194
3x95+50	42,7	3481,8	500	0,320 - 0,641	236	239
3x120+70	48,6	4591,4	500	0,253 - 0,443	269	278
3x150+70	53,2	5389,6	250	0,206 - 0,443	302	316
3x185+95	58,3	6422,8	250	0,164 - 0,320	342	365
3x240+120	64,4	7446,6	250	0,125 - 0,253	397	430
3x300+150	72,4	9976,1	250	0,100 - 0,206	454	506
3x400+185	80,7	11937,5	250	0,0778 - 0,164	520	575

Nominal Cross Section (mm ²)	Overall Diameter (mm)	Net Weight (kg/km)	Delivery Length (m)	Resistance at 20°C (ohm/km)	Current Carrying Capacity	
					In Ground at 20°C	In Air at 30°C
4x10	21,1	843,1	1000	3,08	-	-
4x16	24,2	1157,1	1000	1,91	-	-
4x25	28,1	1527,5	1000	1,20	113	104
4x35	30,8	1815,0	1000	0,868	136	128
4x50	35,7	2485,7	1000	0,641	159	152
4x70	41,1	3159,0	500	0,443	197	194
4x95	46,1	4112,7	500	0,320	236	239
4x120	50,5	4969,8	500	0,253	269	278
4x150	56,7	6012,4	250	0,206	302	316
4x185	62,7	7108,7	250	0,164	342	365
4x240	68,9	8309,6	250	0,125	397	430
4x300	77,4	11078,1	250	0,100	454	506
4x400	86,1	13293,0	250	0,0778	520	575

Nominal Cross Section (mm ²)	Overall Diameter (mm)	Net Weight (kg/km)	Delivery Length (m)	Resistance at 20°C (ohm/km)	Current Carrying Capacity	
					In Ground at 20°C	In Air at 30°C
5x10	23,4	1080,8	1000	3,08	-	-
5x16	26,0	1335,6	1000	1,91	-	-
5x25	30,5	1807,1	1000	1,20	113	104
5x35	34,3	2377,6	1000	0,868	136	128
5x50	38,8	2914,8	500	0,641	159	152
5x70	45,9	4116,4	500	0,443	197	194
5x95	50,7	5101,0	500	0,320	236	239
5x120	55,2	5948,2	250	0,253	269	278
5x150	62,5	7241,0	250	0,206	302	316
5x185	68,7	8445,6	250	0,164	342	365
5x240	77,4	11296,0	250	0,125	397	430
5x300	84,9	13144,9	250	0,100	454	506
5x400	94,6	15946,1	250	0,0778	520	575

Note 1:

*** For YAXZ2(a)Z1 , NA2XR(a)H cables**

Note 2:

Current carrying capacities are valid at 30°C ambient temperature.