

DATA SHEET

N2XRH FE 180

FIRE-RESISTANT ARMoured POWER CABLE

0.6/1 kV | TS IEC 60502-1 | VDE 0276

APPLICATION

Power cable with fire resistance for fixed installation in buildings, outdoors and for direct burial in free-draining soil. Suitable for installations where fire resistance, low smoke and low corrosive gases are required. Used in power networks, industrial facilities, infrastructure and public buildings.



CONSTRUCTION

Conductor	Copper, plain
Fire barrier	Mica tape
Insulation	XLPE (cross-linked polyethylene)
Filler	LSZH (low smoke zero halogen)
Armour	Galvanized round steel wire (SWA)
Outer sheath	LSZH (low smoke zero halogen)
Sheath colour	Black

STANDARDS



TS IEC 60502-1
VDE 0276

APPLICATIONS



- Indoor and outdoor installation
- Direct burial in free-draining soil
- Industrial and infrastructure projects
- Public buildings (hospitals, schools, etc.)
- Areas with high fire safety requirements

FIRE PERFORMANCE



Fire Resistance
BS 6387



Halogen Free
IEC 60754-1



Low Corrosivity
IEC 60754-2



Low Smoke
IEC 61034



Flame Retardant
IEC 60332-1-2

TECHNICAL DATA

Rated voltage U ₀ /U	0.6 / 1 kV
Max. operating temperature	90 °C
Short-circuit temperature	250 °C
Min. bending radius	12 x D
CPR classification	Eca



Andrija Kačić Miošića 19
10000 Zagreb, Croatia



+385 1 4826 338

+385 99 223 9113



info@unima-cable.com

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PRODUCT RANGE – 1 CORE

Part no.	Nominal cross-section (mm ²)	Insulation thickness (mm)	Diameter under armour (mm)	Overall diameter (mm)	Max. conductor resistance at 20 °C (Ω/km)	Approx. net weight (kg/km)
100101	1.5	0.7	7.1	11.8	12.10	196
100102	2.5	0.7	7.8	12.5	7.41	219
100103	4	0.7	8.5	13.2	4.61	251
100104	6	0.7	9.3	14.3	3.08	296
100105	10	0.7	11.0	16.2	1.83	391
100106	16	0.7	12.8	18.4	1.15	516
100107	25	0.9	15.3	21.4	0.727	738
100108	35	0.9	17.4	24.0	0.524	985
100109	50	1.0	19.9	27.1	0.387	1328
100110	70	1.1	23.0	31.2	0.268	1836
100112	120	1.2	26.1	35.0	0.193	2499
100113	150	1.4	32.5	43.8	0.124	3927
100114	185	1.6	36.0	48.5	0.0991	4806
100115	240	1.7	41.1	55.2	0.0754	6158
100116	300	1.8	45.6	61.5	0.0601	7553
100117	400	2.0	51.5	69.1	0.0470	9711


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PRODUCT RANGE – 2 CORES

Part no.	Nominal cross-section (mm ²)	Insulation thickness (mm)	Diameter under armour (mm)	Overall diameter (mm)	Max. conductor resistance at 20 °C (Ω/km)	Approx. net weight (kg/km)
200101	2 x 1.5	0.7	11.5	16.8	12.10	331
200102	2 x 2.5	0.7	12.3	17.9	7.41	375
200103	2 x 4	0.7	13.5	19.4	4.61	437
200104	2 x 6	0.7	14.8	21.1	3.08	520
200105	2 x 10	0.7	17.5	24.5	1.83	705
200106	2 x 16	0.9	20.4	28.4	1.15	954
200107	2 x 25	0.9	24.5	33.6	0.727	1376
200108	2 x 35	0.9	28.0	38.1	0.524	1858
200109	2 x 50	1.0	32.3	43.7	0.387	2514
200110	2 x 70	1.1	37.6	50.5	0.268	3880
200111	2 x 95	1.2	42.9	57.3	0.193	4614
200112	2 x 120	1.2	47.8	63.8	0.153	5892
200113	2 x 150	1.4	53.7	71.6	0.124	7490
200114	2 x 185	1.6	59.4	78.9	0.0991	9135
200115	2 x 240	1.7	67.8	89.6	0.0754	11711
200116	2 x 300	1.8	75.4	99.5	0.0601	14413
200117	2 x 400	2.0	85.5	112.8	0.0470	18558



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PRODUCT RANGE – 3 CORES

Part no.	Nominal cross-section (mm ²)	Insulation thickness (mm)	Diameter under armour (mm)	Overall diameter (mm)	Max. conductor resistance at 20 °C (Ω/km)	Approx. net weight (kg/km)
300101	3 x 1.5	0.7	12.1	17.4	12.10	454
300102	3 x 2.5	0.7	13.1	19.1	7.41	602
300103	3 x 4	0.7	14.6	20.8	4.61	763
300104	3 x 6	0.7	16.9	24.1	3.08	920
300105	3 x 10	0.7	20.2	28.5	1.85	1304
300106	3 x 16	0.9	24.6	34.7	1.15	1860
300107	3 x 25	0.9	29.7	41.9	0.727	2305
300108	3 x 35	1.0	34.9	48.2	0.524	2709
300109	3 x 50	1.1	41.3	57.7	0.387	3205
300110	3 x 70	1.1	47.8	66.2	0.268	3899
300111	3 x 95	1.2	54.9	75.4	0.193	4577
300112	3 x 120	1.2	62.1	84.3	0.153	5101
300113	3 x 150	1.4	69.9	94.2	0.124	5677
300114	3 x 185	1.6	80.1	107.8	0.0991	6300
300115	3 x 240	1.7	90.6	121.7	0.0754	7116
300116	3 x 300	1.8	102.3	136.8	0.0601	7709
300117	3 x 400	2.0	121.0	157.0	0.0470	9747

PRODUCT RANGE – 4 CORES

Part no.	Nominal cross-section (mm ²)	Insulation thickness (mm)	Diameter under armour (mm)	Overall diameter (mm)	Max. conductor resistance at 20 °C (Ω/km)	Approx. net weight (kg/km)
400101	4 x 1.5	0.7	16.0	20.3	12.10	454
400102	4 x 2.5	0.7	17.4	21.7	7.41	602
400103	4 x 4	0.7	19.7	24.3	4.61	763
400104	4 x 6	0.7	23.1	26.8	3.08	920
400105	4 x 10	0.7	24.5	31.8	1.85	1254
400106	4 x 16	0.9	28.6	36.7	1.15	1860
400107	4 x 25	1.0	33.9	43.1	0.727	2305
400108	4 x 35	1.1	41.7	52.4	0.524	2809
400109	4 x 50	1.1	51.2	63.7	0.387	3205
400110	4 x 70	1.2	61.9	76.8	0.268	3899
400111	4 x 95	1.2	70.4	86.1	0.193	4577
400112	4 x 120	1.4	81.9	100.5	0.153	5101
400113	4 x 150	1.6	93.4	112.0	0.124	5677
400114	4 x 185	1.6	107.8	126.0	0.0991	6300
400115	4 x 240	1.7	143.3	167.5	0.0754	7116
400116	4 x 300	1.8	168.4	203.7	0.0601	7709
400117	4 x 400	2.0	193.1	256.6	0.0470	9747

PRODUCT RANGE – 5 CORES

Part no.	Nominal cross-section (mm ²)	Insulation thickness (mm)	Diameter under armour (mm)	Overall diameter (mm)	Max. conductor resistance at 20 °C (Ω/km)	Approx. net weight (kg/km)
500101	5 x 1.5	0.7	17.8	23.4	12.10	454
500102	5 x 2.5	0.7	20.2	26.1	7.41	602
500103	5 x 4	0.7	23.7	29.3	4.61	763
500104	5 x 6	0.7	28.6	35.0	3.08	920
500105	5 x 10	0.9	34.7	43.3	1.85	1304
500106	5 x 16	0.9	41.1	51.2	1.15	1860
500107	5 x 25	1.0	48.6	60.3	0.727	2305
500108	5 x 35	1.1	55.6	66.7	0.524	2709
500109	5 x 50	1.2	65.1	82.1	0.387	3205
500110	5 x 70	1.2	78.8	95.6	0.268	3899
500111	5 x 95	1.4	85.4	106.9	0.193	4577
500112	5 x 120	1.4	97.1	122.6	0.153	5101
500113	5 x 150	1.6	110.4	139.7	0.124	5677
500114	5 x 185	1.7	133.3	173.8	0.0991	6300
500115	5 x 240	1.8	155.3	203.7	0.0754	7116
500116	5 x 300	2.0	183.3	256.1	0.0601	7709
500117	5 x 400	2.0	193.3	256.1	0.0470	9747

Note: The values shown are approximate and may vary due to manufacturing tolerances. Other dimensions and configurations are available on request.



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