

NWPK-AQUA

Flexible cable with Polychloroprene sheath



NEN: RMcLz 450/750 V ($\leq 6 \text{ mm}^2$)
 RMcLzz 450/750 V ($\geq 10 \text{ mm}^2$)
CLC: H07RN8-F

Application:

- For application where the cable is under water during a longer period, e.g. submersible pumps and underwater lighting
- Very suitable for connecting waste-water pumps
- Flexible connection of electrical equipment, like machines, engines, tools and other appliances in factories and workshops, in situations where medium mechanical stress occurs

Properties regarding fire performance:

- Self-extinguishing in accordance with NEN-EN-IEC 60332-1

General properties:

- Excellently waterproof in water depths up to 100 meters
- Very flexible
- Excellent resistance to oil and greases
- Good resistance to weather influences (including ozone)

Construction:

Conductor: flexible tinned copper (class 5)
Insulation: ethylene propylene rubber (EPR)
Assembly: cores cabled together
Outer sheath: polychloroprene (PCP)

Electrical properties:

Voltage rating: 450/750 V
Test voltage: 2,5 kV

Core colours:

1 core: black
2 cores: brown, blue
3 cores: brown, blue, green-and-yellow
4 cores: brown, black, grey, green-and-yellow
5 cores: brown, black, grey, blue, green-and-yellow
Multi cores: two adjacent cores blue and brown, other cores black

Standards/References:

NEN-EN 50525
 NEN-EN-IEC 60332-1

Additional information:

Minimum installation temperature: -25 °C
Maximum conductor temperature: +60 °C
Operating temperature: min. -25 °C, max. +50 °C
Sheath colour: black
Approval: <HAR>
Packaging: drums

Construction data

Conductor category	Class 5 = flexible
Core insulation	Rubber (EPR)
Core identification	Colour
Protective conductor	Yes
Material outer sheath	CR (polychloroprene)
Colour outer sheath	Black
Model	Round
Conductor material	Cu, tinned
Stranding	Multi-core

Properties

Flame retardant	In accordance with EN 60332-1-2
Oil resistant (acc. EN 60811-404)	Yes
Max. conductor temperature	60 °C
Permitted cable outer temperature, in movement	-25 / 50 °C
Permitted cable outer temperature, fixed	-25 / 50 °C

Electrical

Nominal voltage U ₀	450 V
Nominal voltage U	750 V

The information in this document is subject to change without notice. Although the information in this document has been compiled, and is maintained, with great care, Draka Kabel B.V. cannot guarantee that the available information is complete and/or correct. Draka Kabel B.V. cannot accept liability for any consequences, such as damage or loss of profits in any way as a result of using, relying on or actions undertaken as a result of information in this document.

NWPK-AQUA

Flexible cable with Polychloroprene sheath

The information in this document is subject to change without notice. Although the information in this document has been compiled, and is maintained, with great care, Draka Kabel B.V. cannot guarantee that the available information is complete and/or correct. Draka Kabel B.V. cannot accept liability for any consequences, such as damage or loss of profits in any way as a result of using, relying on or actions undertaken as a result of information in this document.

NWPK-AQUA

Flexible cable with Polychloroprene sheath

Product Range

Produkt nr.	No. of cores and conductor cross-section ¹ (n x mm ²)	Outer sheath colour	Nominal diameter over insulation (mm)	Nominal overall diameter (mm)	Minimum bending radius ² (mm)	Maximum tensile strength ³ (N)	Approx. weight (kg/km)
120817	2x1	Black	2,8	8,2	35	30	90
120818	2x1,5	Black	3,1	9,1	40	45	115
120819	2x2,5	Black	3,7	10,8	45	75	165
120820	2x4	Black	4,4	12,5	65	120	230
120821	2x6	Black	5	13,9	70	180	300
120822	3x1	Black	2,8	8,8	40	45	110
120825	3x1,5	Black	3,1	9,8	40	67	140
120828	3x2,5	Black	3,7	11,6	50	110	200
120831	3x4	Black	4,4	13,4	70	180	280
120834	3x6	Black	5	14,9	75	270	370
120823	4x1	Black	2,8	9,8	40	60	135
125964	4x1 var	Black	2,8	9,8	40	60	135
120826	4x1,5	Black	3,1	10,8	45	90	170
120829	4x2,5	Black	3,7	12,8	65	150	250
120832	4x4	Black	4,4	14,7	75	240	350
120835	4x6	Black	5	16,6	85	360	465
120827	5x1,5	Black	3,1	11,9	50	110	205
120830	5x2,5	Black	3,7	14,1	75	185	300
125965	5x2,5 var	Black	3,7	14,1	75	185	300
120833	5x4	Black	4,4	16,5	85	300	430
120836	5x6	Black	5	18,5	95	450	570

1) The letter G in this column indicates presence of a green-and-yellow core. The letter x indicates absence of a green-and-yellow core. Cable types with variant colours are indicated with "var".

2) For flexible wiring.

3) Static tensile strength; also during dynamic application, when often higher forces are expected, the mentioned tensile strength may not be exceeded.

NWPK-AQUA

Flexible cable with Polychloroprene sheath

Electrical features

Produkt nr.	No. of cores and conductor cross-section ¹ (n x mm ²)	Outer sheath colour	Conductor resistance at 20 °C, DC (ohm/km)	Conductor resistance at 60 °C, 50 Hz (ohm/km)	Maximum current rating ² (A)	Mutual inductance ³ (mH/km)
120817	2x1	Black	20,0	23,1	10	0,35
120818	2x1,5	Black	13,7	15,9	16	0,33
120819	2x2,5	Black	8,21	9,5	25	0,32
120820	2x4	Black	5,09	5,89	34	0,3
120821	2x6	Black	3,39	3,92	43	0,29
120822	3x1	Black	20,0	23,1	10	0,35
120825	3x1,5	Black	13,7	15,9	16	0,33
120828	3x2,5	Black	8,21	9,5	25	0,32
120831	3x4	Black	5,09	5,89	34	0,3
120834	3x6	Black	3,39	3,92	43	0,29
120823	4x1	Black	20,0	23,1	9	0,42
125964	4x1 var	Black	20,0	23,1	9	0,42
120826	4x1,5	Black	13,7	15,9	14	0,4
120829	4x2,5	Black	8,21	9,5	22	0,39
120832	4x4	Black	5,09	5,89	29	0,37
120835	4x6	Black	3,39	3,92	36	0,36
120827	5x1,5	Black	13,7	15,9	14	0,4
120830	5x2,5	Black	8,21	9,5	22	0,39
125965	5x2,5 var	Black	8,21	9,5	22	0,39
120833	5x4	Black	5,09	5,89	29	0,37
120836	5x6	Black	3,39	3,92	36	0,36

1) The letter G in this column indicates presence of a green-and-yellow core. The letter x indicates absence of a green-and-yellow core. Cable types with variant colours are indicated with "var".
 2) The maximum current rating applies to one cable in free air, at an ambient temperature of 30 °C based on HD 516 and NEN 1010:2007, table E.52-1. Correction factors for other ambient temperatures than 30 °C are given in table E.52-6. For 4- and 5-cores cables the maximum current is given for 3 cores loaded.
 3) For 4- and 5-cores the working self-inductance for 2 not adjacent cores is given.