



NEN: RMcLz 450/750 V (≤ 6 mm²)
 RMcLzz 450/750 V (≥ 10 mm²)
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 cores: 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:

HD 22
 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
Screen	No
Material outer sheath	CR (polychloroprene)
Colour outer sheath	Black
Model	Round
Low smoke (acc. EN61034-2)	No
Halogen free (acc. EN 50267-2-2)	No
Flame retardant	Acc. EN 60332-1-2
Oil resistant (acc. EN 60811-2-1)	Yes
Max. conductor temperature	60 °C
Operating temperature, flexible	-25/50 °C
Operating temperature, fix	-25/50 °C
Nominal voltage U ₀	450 V
Nominal voltage U	750 V
Conductor material	Cu, tinned
Stranding	Multi-core

Properties

Electrical

Product packing

Length of 1 m
 Ring of 50 m

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	95
120818	2x1,5	Black	3,1	9,1	40	45	120
120819	2x2,5	Black	3,7	10,8	45	75	170
120820	2x4	Black	4,4	12,5	65	120	235
120821	2x6	Black	5,0	13,9	70	180	310
120822	3G1	Black	2,8	8,8	40	45	110
120825	3G1,5	Black	3,1	9,8	40	67	140
120828	3G2,5	Black	3,7	11,6	50	110	205
120831	3G4	Black	4,4	13,4	70	180	285
120834	3G6	Black	5,0	14,9	75	270	385
120823	4G1	Black	2,8	9,8	40	60	135
125964	4x1 var	Black	2,8	9,8	40	60	135
120826	4G1,5	Black	3,1	10,8	45	90	175
120829	4G2,5	Black	3,7	12,8	65	150	250
120832	4G4	Black	4,4	14,7	75	240	355
120835	4G6	Black	5,0	16,6	85	360	485
120827	5G1,5	Black	3,1	11,9	50	110	210
120830	5G2,5	Black	3,7	14,1	75	185	305
125965	5x2,5 var	Black	3,7	14,1	75	185	305
120833	5G4	Black	4,4	16,5	85	300	435
120836	5G6	Black	5,0	18,5	95	450	595

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.

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	23,1400	10	0,35
120818	2x1,5	Black	13,7	15,8509	16	0,33
120819	2x2,5	Black	8,21	9,4990	25	0,32
120820	2x4	Black	5,09	5,8891	34	0,30
120821	2x6	Black	3,39	3,9222	43	0,29
120822	3G1	Black	20,0	23,1400	10	0,35
120825	3G1,5	Black	13,7	15,8509	16	0,33
120828	3G2,5	Black	8,21	9,4990	25	0,32
120831	3G4	Black	5,09	5,8891	34	0,30
120834	3G6	Black	3,39	3,9222	43	0,29
120823	4G1	Black	20,0	23,1400	9	0,42
125964	4x1 var	Black	20,0	23,1400	9	0,42
120826	4G1,5	Black	13,7	15,8509	14	0,40
120829	4G2,5	Black	8,21	9,4990	22	0,39
120832	4G4	Black	5,09	5,8891	29	0,37
120835	4G6	Black	3,39	3,9222	36	0,36
120827	5G1,5	Black	13,7	15,8509	14	0,40
120830	5G2,5	Black	8,21	9,4990	22	0,39
125965	5x2,5 var	Black	8,21	9,4990	22	0,39
120833	5G4	Black	5,09	5,8891	29	0,37
120836	5G6	Black	3,39	3,9222	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.