



### Construction:

Conductor	: 3 conductor:	bare copper, round, stranded, class 5.
	5 conductor:	bare copper, round, stranded.
Insulation	:	elastomer.
Inner covering	:	extruded filling compound with release tape to bond.
Outer conductor	: 3 conductor:	copper wires, ceander shaped, with Cu-counter helix.
	5 conductor:	protective earth (PE) Cu wires, ceander shaped, with Cu-counter helix.
Outer sheath	:	halogen-free, durable PE.

### Technical data and tests:

Core identification	: 3 conductor:	3LPEN: L1 black, red L2, L3 white. 2LNPE: L1 black, brown L2, N blue.
	5 conductor:	L1 brown, black L2, L3 gray, blue N.
Abrasion resistant identification	:	2 yellow longitudinal stripes, year / month, cable marking, 0.6 / 1 kV, meter marking.
Rated voltage U <sub>0</sub> /U	:	0,6/1 kV.
Test voltage (AC voltage, 5 min)	:	3.5 kV according to HD 603.1.
Temperature range	:	continuous operation: ≤ 90° C. emergency operation (less than 8 h / d, less than 100 h / a) : ≤ 130° C. short circuit: ≤ 250° C.

### Standards:

Cable	:	CENELEC HD 601 S1 part 7E.
Conductor	:	IEC 60228.
Conductor resistance (DC at 20° C)	:	IEC 60228.
Halogen free	:	IEC 60 754-1.
No corrosive gases	:	DIN EN 50 267-2-3.
No toxic gases	:	DIN EN 50 305.
Insulation	:	HD 603.1 Table 2B.
Core identification	:	3 conductor : HD 603 S1 part 7E. 5 conductor : HD 308.

The cables comply with EU LVD (low voltage directive 73/23/EEC) and RoHS Directive EU 2002/65/EC - RoHS 2.0 and Regulation No. 1907/2006 (REACH), dated 20.06.2013.

### Applications:

Suitable for use in soil, conduits, cable ducts and outdoors for power stations, industry and switchgear as well as in low voltage distribution networks.

The design is specifically used in the 5-conductor system TN-S with a separate neutral conductor (N) and protective earth (PE). This enables EMC optimized supply network to reduce the electromagnetic interference.

By the networked conductor insulation particularly suitable for higher temperatures for short-circuit and overload. The PE sheath of the network cable is particularly robust and is characterized by excellent mechanical properties and increased resistance to heat pressure.





### DIMENSIONS - 3 conductor

Part name	Outside Diameter mm	Weight appr. kg / km	Nominal Short-circuit kA	Max. Tensile Load daN	Bending Radius Once mm	Bending Radius Several Times mm
3x2,5RF/2,5 (2LNPE) with C-wire to VDE	15	255	0.36	30	60	120
3x6 RF/6 (3LPEN)	18	470	0.86	72	80	150
3x6 RF/6 (2LNPE)	18	470	0.86	72	80	150
3x10 RF/10 (3LPEN)	20	655	1.43	120	90	170
3x10 RF/10 (2LNPE)	20	655	1.43	120	90	170
3x16 RF/16 (3LPEN)	23	930	2.29	192	100	190
3x16 RF/16 (2LNPE)	23	930	2.29	192	100	190
3x25 RF/25 (3LPEN)	27	1360	3.58	300	110	220
3x50 RF/50 (3LPEN)	34	2465	7.15	600	140	270
3x70 RF/70 (3LPEN)	40	3495	10.01	840	160	320
3x95 RF/95 (3LPEN)	44	4515	13.59	1140	180	360
3x150 RF/150 (3LPEN)	54	7080	0	0	0	0
3x185 RF/185 (3LPEN) with C-wire to VDE	60	7950	26.46	2220	245	490
3x240 RF/240 (3LPEN) with C-wire to VDE	67	10205	34.32	3600	275	550
3x300 RF/300 (3LPEN) with C-wire to VDE	77	12648	42.9	0	320	640

### DIMENSIONS - 5 conductor

Part name	Outside Diameter mm	Weight appr. kg / km	Nominal Short-circuit kA	Max. Tensile Load daN	Bending Radius Once mm	Bending Radius Several Times mm
4x2,5RF/2,5 (3LNPE) with C-wire to VDE	15	295	0.36	40	70	130
4x6 RF/6 (3LNPE)	19	550	0.86	96	80	160
4x10 RF/10 (3LNPE)	22	765	1.43	160	90	180
4x16 RF/16 (3LNPE)	25	1100	2.29	256	100	200
4x25 RF/25 (3LNPE)	29	1615	3.58	400	120	240
4x35 RF/35 (3LNPE)	32	2170	5.01	560	140	270
4x50 RF/50 (3LNPE)	37	2950	0	0	0	0
4x95 RF/95 (3LNPE)	48	5410	0	0	0	0
4x150 RF/150 (3LNPE)	60	8520	0	0	0	0
4x185 RF/185 (3LNPE) with C-wire to VDE	66	9700	0	0	0	0
4x240 RF/240 (3LNPE) with C-wire to VDE	74	13770	34.32	3840	300	600

