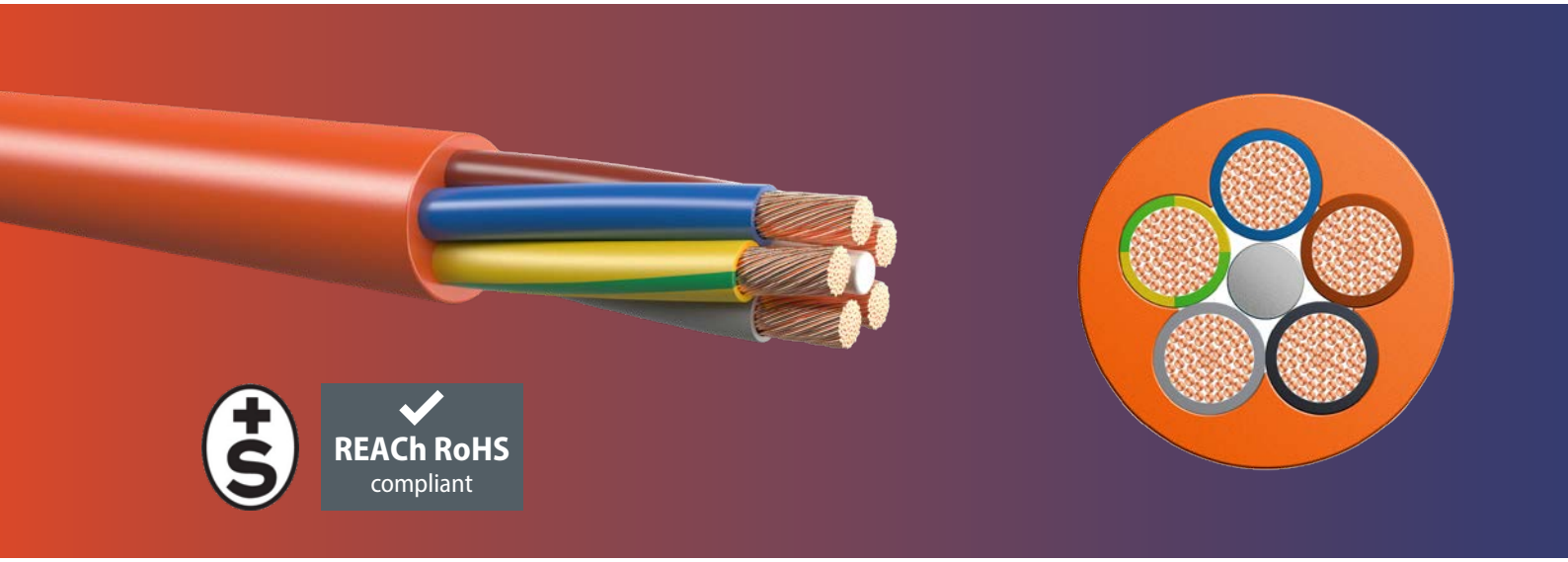
SAFETY CABLES

ROFLEX® CH-N1BQ-F

Robust and flexible connection cable



Applications

Suitable for all flexible applications under extreme ambient conditions. Also distinguished by a very high resistance to UV radiation, ozone and mineral oil. Not for permanent installation in buildings.

Typical ranges of application include construction sites, the machine industry, the chemical industry, the food industry, agriculture and forestry, municipal enterprises, transport, electric hand tools, and lights etc.

Benefits

- Good abrasion resistance
- Cold flexibility to −40 °C
- Halogen-free
- RoHS- and REACh-compliant
- Resistant to oil and fuel
- Good weather, ozone and UV resistance
- Resistant to hydrolysis

Construction

Conductor	Bare annealed copper strand, fine-wire, acc. to VDE 0295 / IEC 60228, class 5
Insulation	Ethylene propylene rubber (EPR), cross-linked
Core colour	≤5: Cores acc. to HD 308 S2 ≥6: Cores black with brightly printed numbers and green/yellow
Outer sheath	Polyurethane (PUR)
Sheath colour	Orange (other colours on request)

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Electrical properties

Nominal voltage	U_0/U	≤1 mm² 300/500 V
	U_0/U	≥1.5 mm² 600/1000 V
Test voltage		3500 V

Bending radius

Fixed installation	>4 × outer Ø
Occasionally moved	>8 × outer Ø

Thermal properties

Max. conductor temperature	
Fixed installation	+90 °C
Occasionally moved	+80 °C
Temporary fixed installation	+120 °C

Min. ambient temperature	
Fixed installation	−55 °C
Occasionally moved	−40 °C

Standards / Material properties

Halogen-free	IEC 60754-1; EN 60754-1
Oil resistance	EN 60811-2-1 (24 h/100 °C)
Good abrasion resistance	

Fire properties

In accordance with Construction Products Regulation (BauPVo)

Fire behaviour F_{ca}	EN 13501-6
No fire protection	Not for permanent indoor installation
Material selection	RoHS- and REACh-compliant

Special features

- Assembled and shielded cables on request
- Implementation with customer logo: Minimum order quantities 300 m ≤ 10 mm², 100 m ≥ 16 mm²

Nominal cross-section (n × mm²)	Core function	Core Ø (mm)	Outer Ø (mm)	Weight (kg/km)	Fire load (kWh/m)	Order no.
2 × 1	LN	2.60	7.00	57	0.36	188903
3 G 1	LNPE	2.60	7.40	69	0.40	188918
4 G 1	2LNPE	2.60	8.10	86	0.48	188917
4 G 1	3LPE	2.60	8.10	85	0.30	300278
5 G 1	3LNPE	2.60	9.00	106	0.57	188916
7 G 1	NRPE	2.60	10.90	146	0.83	211769
2 × 1.5	LN	2.90	7.60	70	0.42	188761
3 G 1.5	LNPE	2.90	8.20	87	0.48	188762
4 G 1.5	2LNPE	2.90	9.00	108	0.57	188763
4 G 1.5	3LPE	2.90	9.00	108	0.57	300279
5 G 1.5	3LNPE	2.90	10.00	135	0.68	188764
7 G 1.5	NRPE	2.90	11.90	183	0.98	188765
8 G 1.5	NRPE	2.90	13.00	212	1.15	300010
10 G 1.5	NRPE	2.90	14.40	260	0.73	*
12 G 1.5	NRPE	2.90	14.40	278	1.31	191603
16 G 1.5	NRPE	2.90	16.20	362	1.68	188914

Nominal cross-section (n × mm²)	Core function	Core Ø (mm)	Outer Ø (mm)	Weight (kg/km)	Fire load (kWh/m)	Order no.
2 × 2.5	LN	3.50	8.90	102	0.56	303396
3 G 2.5	LNPE	3.50	9.40	125	0.60	188766
4 G 2.5	2LNPE	3.50	10.60	162	0.76	188767
4 G 2.5	3LPE	3.50	10.60	162	0.49	222884
5 G 2.5	3LNPE	3.50	11.70	200	0.90	188768
7 G 2.5	NRPE	3.50	14.40	280	1.37	188769
2 × 4	LN	4.30	12.00	161	0.90	303398
3 G 4	LNPE	4.30	12.90	209	1.05	300280
4 G 4	3LPE	4.30	14.40	273	1.32	300954
5 G 4	3LNPE	4.30	15.80	331	1.58	188771
7 G 4	NRPE	4.30	18.90	440	1.29	*
2 × 6	LN	5.00	13.50	234	0.66	*
3 G 6	LNPE	5.00	14.50	287	1.23	188773
4 G 6	3LPE	5.00	16.10	368	1.59	222885
5 G 6	3LNPE	5.00	17.80	462	1.97	188775
7 G 6	NRPE	5.00	21.10	670	2.68	303368
4 G 10	3LPE	6.20	19.60	567	2.34	222891
5 G 10	3LNPE	6.20	21.50	689	2.74	188912
3 G 16	LNPE	7.80	21.90	672	2.68	218978
4 G 16	3LPE	7.80	23.60	846	3.13	222892
5 G 16	3LNPE	7.80	26.20	1043	3.81	188777
3 G 25	LNPE	9.20	24.90	987	3.39	305882
4 G 25	3LPE	9.20	27.30	1254	3.96	222893
5 G 25	3LNPE	9.20	30.10	1550	4.84	188778
4 G 35	3LPE	10.50	30.80	1673	4.98	305811
5 G 35	3LNPE	10.50	34.10	2097	5.99	188779
1 × 50	L	12.40	16.00	562	1.47	191705
1 G 50	PE	12.40	16.00	562	1.47	191707
4 G 50	3LPE	12.40	36.30	2399	7.19	222894
5 G 50	3LNPE	12.40	40.50	3037	8.98	188780
4 G 70	3LPE	14.20	40.70	3196	8.44	305828
5 G 70	3LNPE	14.20	46.00	4021	10.57	188781

Nominal cross-section (n × mm²)	Core function	Core Ø (mm)	Outer Ø (mm)	Weight (kg/km)	Fire load (kWh/m)	Order no.
1 × 95	L	16.40	20.40	974	2.14	221534
1 G 95	PE	16.40	20.40	974	2.14	223542
5 G 95	3LNPE	16.40	52.20	5307	12.24	188782
1 × 120	L	18.40	22.60	1238	2.55	221535
1 G 120	PE	18.40	22.60	1238	2.55	223543
1 × 150	L	20.80	25.20	1531	3.15	221536
1 G 150	PE	20.80	25.20	1531	3.15	223544
1 × 185	L	22.90	27.50	1844	3.51	221537
1 G 185	PE	22.90	27.50	1844	3.51	223545
1 × 240	L	25.80	30.60	2389	4.01	221538
1 G 240	PE	25.80	30.60	2389	4.01	223546

G = with green/yellow core.

* on request.

Other designs on request.

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