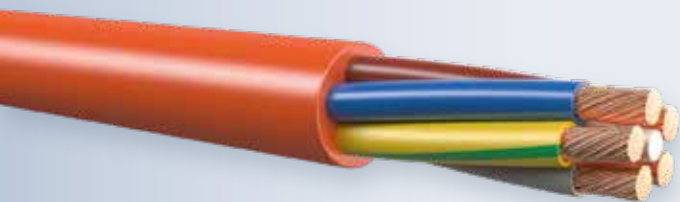


ROFLEX® robust and flexible connection cable

CH-N1BQ-F



REACH



Benefits

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

ROFLEX®

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 applications include:

- Construction sites
- Machinery industry
- Chemicals industry
- Food industry
- Agriculture and forestry
- Municipal operations
- Traffic
- Electric hand tools
- Lamps, etc.

Construction

- | | |
|-----------------|--|
| ■ Conductors | Bare annealed copper strand, fine-wire, cert. 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) |

Electrical characteristics

Nominal voltage	$U_0/U \leq 1 \text{ mm}^2 \text{ 300/500 V,}$ $\geq 1.5 \text{ mm}^2 \text{ 600/1000 V}$
Test voltage	3500 V

Bending radius

Fixed installation	$>4 \times \text{outer } \varnothing$
Occasionally moved	$>8 \times \text{outer } \varnothing$

Thermal characteristics

Max. conductor temperature	
Fixed installation	$+90^{\circ}\text{C}$
Moved occasionally	$+80^{\circ}\text{C}$
Temporary fixed installation	$+120^{\circ}\text{C}$

Min. ambient temperature

Fixed installation	-55°C
Moved occasionally	-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 according to CPR

- | | |
|---------------------------|---|
| ■ Fire behaviour F_{ca} | EN 13501-6 |
| ■ No fire protection | Not for permanent installation in buildings |
| ■ Material selection | RoHS-compliant |

Special features

- Assembled and shielded cables on request
- Design featuring customer logo:
Minimum order quantities $300 \text{ m} \leq 10 \text{ mm}^2$, $100 \text{ m} \geq 16 \text{ mm}^2$
- According to VDE H05BQ-F/H07BQ-F on request

Cable type	Nominal cross-section	Core function	Core Ø	Outer Ø	Weight	Fire load	Order no.
	n × mm ²		mm	mm	kg/km	kWh/m	
ROFLEX	2 × 1	LN	2.6	7	57	0.36	188903
ROFLEX	3 G 1	LNPE	2.6	7.4	69	0.4	188918
ROFLEX	4 G 1	2LNPE	2.6	8.1	86	0.48	188917
ROFLEX	4 G 1	3LPE	2.6	8.1	85	0.3	300278
ROFLEX	5 G 1	3LNPE	2.6	9	106	0.57	188916
ROFLEX	7 G 1	NRPE	2.6	10.9	146	0.83	211769
ROFLEX	2 × 1.5	LN	2.9	7.6	70	0.42	188761
ROFLEX	3 G 1.5	LNPE	2.9	8.2	87	0.48	188762
ROFLEX	4 G 1.5	2LNPE	2.9	9	108	0.57	188763
ROFLEX	4 G 1.5	3LPE	2.9	9	108	0.57	300279
ROFLEX	5 G 1.5	3LNPE	2.9	10	135	0.68	188764
ROFLEX	7 G 1.5	NRPE	2.9	11.9	183	0.98	188765
ROFLEX	8 G 1.5	NRPE	2.9	13	212	1.15	300010
ROFLEX	10 G 1.5	NRPE	2.9	14.4	260	0.73	*
ROFLEX	12 G 1.5	NRPE	2.9	14.4	278	1.31	191603
ROFLEX	16 G 1.5	NRPE	2.9	16.2	362	1.68	188914
ROFLEX	2 × 2.5	LN	3.5	8.9	102	0.56	303396
ROFLEX	3 G 2.5	LNPE	3.5	9.4	125	0.6	188766
ROFLEX	4 G 2.5	2LNPE	3.5	10.6	162	0.76	188767
ROFLEX	4 G 2.5	3LPE	3.5	10.6	162	0.49	222884
ROFLEX	5 G 2.5	3LNPE	3.5	11.7	200	0.9	188768
ROFLEX	7 G 2.5	NRPE	3.5	14.4	280	1.37	188769
ROFLEX	2 × 4	LN	4.3	12	161	0.9	303398
ROFLEX	3 G 4	LNPE	4.3	12.9	209	1.05	300280
ROFLEX	4 G 4	3LPE	4.3	14.4	273	1.32	300954
ROFLEX	5 G 4	3LNPE	4.3	15.8	331	1.58	188771
ROFLEX	7 G 4	NRPE	4.3	18.9	440	1.29	*
ROFLEX	2 × 6	LN	5	13.5	234	0.66	*
ROFLEX	3 G 6	LNPE	5	14.5	287	1.23	188773
ROFLEX	4 G 6	3LPE	5	16.1	368	1.59	222885
ROFLEX	5 G 6	3LNPE	5	17.8	462	1.97	188775
ROFLEX	7 G 6	NRPE	5	21.1	670	2.68	303368
ROFLEX	4 G 10	3LPE	6.2	19.6	567	2.34	222891
ROFLEX	5 G 10	3LNPE	6.2	21.5	689	2.74	188912
ROFLEX	3 G 16	LNPE	7.8	21.9	672	2.68	218978
ROFLEX	4 G 16	3LPE	7.8	23.6	846	3.13	222892
ROFLEX	5 G 16	3LNPE	7.8	26.2	1043	3.81	188777
ROFLEX	3 G 25	LNPE	9.2	24.9	987	3.39	305882
ROFLEX	4 G 25	3LPE	9.2	27.3	1254	3.96	222893
ROFLEX	5 G 25	3LNPE	9.2	30.1	1550	4.84	188778
ROFLEX	4 G 35	3LPE	10.5	30.8	1673	4.98	305811
ROFLEX	5 G 35	3LNPE	10.5	34.1	2097	5.99	188779
ROFLEX	1 × 50	L	12.4	16	562	1.47	191705
ROFLEX	1 G 50	PE	12.4	16	562	1.47	191707

G = with GN/YE core ●

* On request
Other designs on request

Cable type	Nominal cross-section n × mm ²	Core function	Core Ø mm	Outer Ø mm	Weight kg/km	Fire load kWh/m	Order no.
ROFLEX	4 G 50	3LPE	12.4	36.3	2399	7.19	222894
ROFLEX	5 G 50	3LNPE	12.4	40.5	3037	8.98	188780
ROFLEX	4 G 70	3LPE	14.2	40.7	3196	8.44	305828
ROFLEX	5 G 70	3LNPE	14.2	46	4021	10.57	188781
ROFLEX	1 × 95	L	16.4	20.4	974	2.14	221534
ROFLEX	1 G 95	PE	16.4	20.4	974	2.14	223542
ROFLEX	5 G 95	3LNPE	16.4	52.2	5307	12.24	188782
ROFLEX	1 × 120	L	18.4	22.6	1238	2.55	221535
ROFLEX	1 G 120	PE	18.4	22.6	1238	2.55	223543
ROFLEX	1 × 150	L	20.8	25.2	1531	3.15	221536
ROFLEX	1 G 150	PE	20.8	25.2	1531	3.15	223544
ROFLEX	1 × 185	L	22.9	27.5	1844	3.51	221537
ROFLEX	1 G 185	PE	22.9	27.5	1844	3.51	223545
ROFLEX	1 × 240	L	25.8	30.6	2389	4.01	221538
ROFLEX	1 G 240	PE	25.8	30.6	2389	4.01	223546

G = with GN/YE core 

* On request
Other designs on request

