

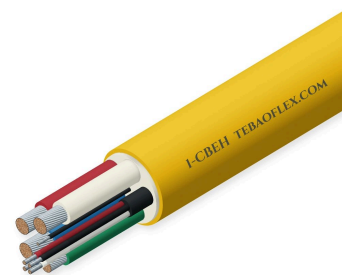


Heavy-duty rubber cables (NSSHÖU)

1-CBEH

Underground Mining Rubber Cable

French NF M 82-375 0.6/1 kV screened underground mining EPR/PCP rubber cable



NF M 82-375

U0/U 0.6/1 kV

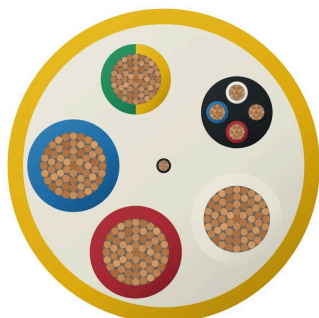
EPR · Screen E · PCP H

Application

French-standard 0.6/1 kV (1 kV class) underground mining power and control cable to NF M 82-375 with Class 5 copper conductors ('C'), vulcanised EPR insulation ('B'), collective flexible metallic screen ('E') and flame-retardant PCP outer sheath ('H').

Typical uses: Underground coal, potash & hard-rock mines, Francophone African & European mining, Tunnel boring & gallery excavation, Quarry crushers & mineral processing, Mine gate-end & transformer feeders

Construction



Cross-section, not to scale

1	Flexible copper conductors (C)	IEC 60228 / NF C 32-013 Class 5
2	Vulcanised EPR insulation (B)	NF M 82-375 Type B
3	Elastomeric inner bedding	
4	Collective metallic screen (E)	NF M 82-375 earth-leakage & crush screen
5	Heavy-duty PCP outer sheath (H)	NF C 32-070 C2 / IEC 60332-1-2

Technical data

Typical values

Rated voltage U0/U	0.6/1 kV (600/1000 V AC · 1 kV mining class)	Max. operating voltage	720/1200 V AC
AC test voltage	3000 V AC (50 Hz, 5 min) on power cores · 2000 V on pilots	Conductor stranding	IEC 60228 / NF C 32-013 Class 5 flexible copper
Fault-sensing screen	Collective metallic braid ('E') trips mine vigilohm/earth-fault relays	Max. conductor temperature	+90 °C continuous operation (EPR Type B)
Short-circuit temperature	+250 °C max. (up to 5 s)	Temperature, flexing	–25 °C to +80 °C
Temperature, fixed	–40 °C to +80 °C	Min. bending radius, fixed	5 × overall diameter
Min. bending radius, moving	8 × overall diameter	Max. tensile load	15 N/mm ² of copper cross-section
Impact & crush resistance	Reinforced by inner rubber bedding + metallic braid screen	Flame retardance	NF C 32-070 Cat. C2 & IEC 60332-1-2 self-extinguishing
Oil & hydraulic fluids	EN 60811-404 mineral oil & grease resistant ('H' polychloroprene)	Mine water & humidity	Resistant to acidic/alkaline mine water and rock abrasion
Ozone & weathering	EN 60811-403 ozone-resistant EPR/PCP elastomer system	Standards	NF M 82-375 (Charbonnages de France / AFNOR mining series)
Standard packing	Heat-treated ISPM-15 timber drums with sealed cable ends		

Sizes

12 standard constructions

Tick the sizes you need and send this page to info@tebaoflex.com or WhatsApp +86 185 9591 3361.

Order designation	Cores × mm ²	AWG ≈	Outer Ø min mm	Outer Ø max mm	Copper kg/km	Weight ≈ kg/km	Min. bend R mm
1-CBEH Mining Power + Earth + 3×2.5 mm ² Pilot Cables (16–120 mm ²) 7 sizes							
☐ 1-CBEH 3×16+16E+3×2.5	3×16+16E+3×2.5	6	27.1	29.5	686	1,520	148
☐ 1-CBEH 3×25+16E+3×2.5	3×25+16E+3×2.5	4	30.7	33.4	946	1,980	167
☐ 1-CBEH 3×35+25E+3×2.5	3×35+25E+3×2.5	2	34.2	37.2	1,315	2,590	186
☐ 1-CBEH 3×50+25E+3×2.5	3×50+25E+3×2.5	1	38.5	41.8	1,747	3,340	209
☐ 1-CBEH 3×70+35E+3×2.5	3×70+35E+3×2.5	2/0	43.1	46.8	2,429	4,450	234
☐ 1-CBEH 3×95+50E+3×2.5	3×95+50E+3×2.5	3/0	48.2	52.4	3,293	5,810	262
☐ 1-CBEH 3×120+70E+3×2.5	3×120+70E+3×2.5	4/0	52.4	57.0	4,205	7,190	285
1-CBEH 4-Core Screened Mining Power Cables (6–10 mm ²) 2 sizes							
☐ 1-CBEH 4G6	4G6	10	18.8	20.4	230	680	102
☐ 1-CBEH 4G10	4G10	8	22.3	24.2	384	995	121
1-CBEH Screened Multi-Core Mining Control & Signalling Cables (7–19×2.5 mm ²) 3 sizes							
☐ 1-CBEH 7×2.5	7×2.5	14	17.9	19.5	168	590	98
☐ 1-CBEH 12×2.5	12×2.5	14	22.3	24.2	288	910	121
☐ 1-CBEH 19×2.5	19×2.5	14	26.3	28.6	456	1,320	143

– Dimensions and weights are typical values per NF M 82-375 / NF C 32-310. Minimum fixed bending radius shown is 5 × OD.

Electrical & current ratings

10 sizes

Cross-section mm ²	AWG ≈	Max. DC resistance 20 °C, Ω/km	1-core in air 30 °C, A	3–4 core in air 30 °C, A
2.5	14	8.21	30	25
6	10	3.39	53	44
10	8	1.95	74	61
16	6	1.24	99	82
25	4	0.795	131	108
35	2	0.565	162	135
50	1	0.393	202	168
70	2/0	0.277	250	207
95	3/0	0.21	301	250
120	4/0	0.164	352	292

– Current ratings at 30 °C ambient in free air per DIN VDE 0298-4 / EN 50565-1. Apply derating factors for elevated ambient temperature or reeling layer grouping.

Standards and approvals

✓ NF M 82-375 / NF C 32-310

✓ CE · RoHS 2 (2011/65/EU) · REACH

Certifications



Management systems: ISO 9001, ISO 14001, ISO 45001

Request a quotation

Send the size, length and destination. An application engineer replies within 2 business hours.

WhatsApp / phone

+86 185 9591 3361

Email

info@tebaoflex.com

Web

tebaoflex.com/cables/1-cbeh-underground-mining-rubber-cable



Typical values for this cable type, based on NF M 82-375 / NF C 32-310. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.