



TEBAOFLEX CABLE

DATA SHEET

Mining&Industrial cable

C800 EXTRA FLEXIBLE PVC REELING CABLE

Compact multiconductor cable for spring reels and machine wiring



APPLICATION

PVC extra-flexible round cable for compact reeling applications and machine wiring, especially spring and extension reels where space is limited and an economical solution is required.

CONSTRUCTION

Parameter	Value
Conductor	Flexible copper, category 5 according to DIN VDE 0295 / IEC 60228
Core insulation	Mass-coloured special PVC compound
Core coding	Coloured cores according to NFC 32090 Ch. 7.3 / CEI 502
Outer sheath	Transparent special PVC compound
Jacket feature	Integrated tear-up cord for easy jacket removal
Cable form	Round multiconductor cable for compact spring and extension reels
Lay	Short length of lay for higher flexibility
Jacket colour	Transparent

OPERATING CHARACTERISTICS

Parameter	Value
Rated voltage U ₀ /U	0.6/1 kV
Maximum AC operating voltage	0.7/1.2 kV
Maximum DC operating voltage	0.9/1.8 kV
Travel speed	Up to 60 m/min horizontal
Ambient temperature, flexing	-10 °C to +90 °C
Ambient temperature, fixed	-10 °C to +90 °C
Maximum conductor temperature	+80 °C
Short-circuit conductor temperature	+110 °C
Minimum bending radius, static	3 x diameter
Minimum bending radius, dynamic	8 x diameter
Reel type	Spring and extension reels with limited installation space

PERFORMANCE AND USE

Parameter	Value
Flame performance	Low flammability according to IEC 60332-1, class 3 (not tested)
Voltage test	According to IEC 60502-1
Ozone resistance	No
Humidity resistance	Yes
UV resistance	Yes
Moisture resistance	Yes
Oil resistance	Yes
Halogen-free	No
Typical applications	Compact reeling applications and machine wiring
Restrictions	Not suitable for level-wind reeling, water use or deflecting-pulley installations without technical review
Anchoring	Use adapted anchor devices, cable mesh grips and spring shock absorbers

TECHNICAL DATA

Nominal dimensional data from the source technical sheet; source ordering codes omitted.

C800 CONTROL, SIGNAL AND POWER CABLE DIMENSIONS					
Cable family	Conductors and cross section mm2	Outer diameter max. mm	Copper approx. kg/km	Weight approx. kg/m	Tensile load N
C800 control	2 x 1	5.7	19.2	0.046	40
C800 control	3 G 1	6.0	28.8	0.059	60
C800 control	4 G 1	6.8	38.4	0.075	80
C800 control	6 G 1	8.0	57.6	0.110	120
C800 control	8 G 1	9.7	76.8	0.157	160
C800 control	10 G 1	10.6	96.0	0.181	200
C800 control	12 G 1	12.2	115.2	0.232	240
C800 control	15 G 1	12.9	144.0	0.260	240
C800 control/power	3 G 2	7.1	57.6	0.093	120
C800 control/power	4 G 2	8.0	76.8	0.120	160
C800 control/power	5 G 2	8.7	96.0	0.149	200
C800 control/power	6 G 2	9.8	115.2	0.181	240
C800 control/power	4 G 3	10.4	115.2	0.199	240

TECHNICAL DATA

ELECTRICAL, THERMAL, MECHANICAL AND MATERIAL DATA

Parameter	Value
Rated voltage	600/1000 V
Maximum AC operating voltage	700/1200 V
Maximum DC operating voltage	900/1800 V
AC test voltage	According to IEC 60502-1
Flexing temperature	-10 °C to +60 °C
Fixed temperature	-10 °C to +60 °C
Maximum conductor temperature	+80 °C
Short-circuit temperature	+110 °C
Minimum radius, static	3 x diameter
Minimum radius, dynamic	8 x diameter
Spool flexing reference	6 x diameter
Tensile load	According to data table
Conductor	Flexible copper, category 5
Insulation	Special PVC compound; mass-coloured cores
Inner sheath	Special PVC compound
Outer sheath	Transparent special PVC compound
Tear-up cord	Integrated
Design standards	DIN VDE 0295 / IEC 60228; NFC 32090; CEI 502
Flame behaviour	Low flammability according to IEC 60332-1
Colour	Transparent

CERTIFICATIONS



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