



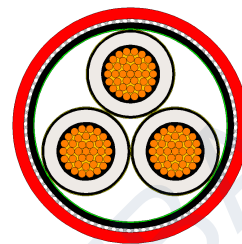
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrialcable

2XSEYQY

6/10 kV screened tunnel cable



APPLICATION

Medium-voltage cable for connection of mobile operating equipment in mines, underground excavations and tunnelling environments. Suitable for stationary operation such as high-voltage transformers, main panels and switchboards in demanding tunnel applications.

CONSTRUCTION

Component	Description
Conductor	Circular stranded plain annealed copper conductor, Class 2 according to IEC 60228
Insulation	XLPE insulation with extruded inner and outer rubber semi-conductive layers
Core identification	Natural colouring with black semi-conductive layer
Screen	Copper tapes applied over each main core
Lay up	Three screened cores laid up concentrically
Bedding	PVC filler
Armour	Galvanized steel wire braid with minimum 90% coverage
Outer sheath	5GM5 type elastomer compound, red

CHARACTERISTICS

- Screened three-core construction for medium-voltage tunnel power supply.
- Flame-retardant elastomer outer sheath for harsh underground environments.
- Copper tape screen and galvanized steel wire braid armour.
- Designed for fixed and mobile operation within the stated temperature range.

OPERATING CHARACTERISTICS

Parameter	Value
Rated voltage U ₀ /U	6/10 kV
AC test voltage	17 kV
Max. permissible AC operating voltage	6.9/12 kV
Max. permissible DC operating voltage	9/18 kV
Fixed working temperature	-25 °C to +90 °C
Mobile working temperature	+5 °C to +90 °C
Maximum tensile load	15 N/mm ²
Maximum torsion	25°/m
Minimum bending radius	According to DIN VDE 0298-3
Current carrying capacity	According to DIN VDE 0298-4

STANDARDS

Parameter	Value
Construction	DIN VDE 0250-605 and IEC 60502-2
General requirements	DIN VDE 0250-1
Guide use	DIN VDE 0298-3
Electrical tests	DIN VDE 0472-501, 503, 508
Non-electrical tests	DIN VDE 0472-401, 402, 602, 303, 615
Under fire condition tests	DIN VDE 0472-803, 804
Flame retardant	VDE 0482-332-1-2, DIN EN 60332-1-2, IEC 60332-1

TECHNICAL DATA

Values are technical parameters only. Cable dimensions may vary due to manufacturing tolerances.

Cross section mm ²	Overall diameter min-max mm	Max. DC resistance 20 °C ohm/km	Approx. weight kg/km
2XSEYQY			
3x25/16	45.0 - 49.6	0.727	3650
3x35/16	47.7 - 52.8	0.524	4200
3x50/16	50.6 - 56.0	0.387	4960
3x70/16	54.5 - 60.2	0.268	6030
3x95/16	58.8 - 65.0	0.193	7300
3x120/16	62.0 - 68.5	0.153	8410

NOTES

- Standard values are based on the technical data table above.
- Other conductor sizes, packing forms and delivery lengths are available on request.

CERTIFICATIONS



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