



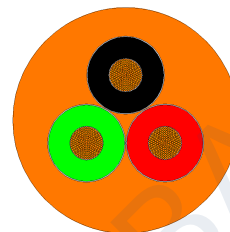
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrial cable

LONGWALL SIGNAL CABLE

50 V flexible signal cable for longwall mining



APPLICATION

Flexible low-voltage signal cable for longwall and other underground mining applications. The cable is designed for signal and control circuits in the underground mining environment, with an extra-tough TPU jacket, flexible copper conductors and optional full copper braid shielding.

CONSTRUCTION

Component	Description
Power conductors	Extra-flexible stranded copper conductors manufactured to ASTM B-174
Cross-section	Round-shaped cable construction for underground mining signal circuits
Insulation	Chemically cross-linked, non-chlorinated thermosetting flame-retardant polyolefin
Outer jacket	Extra-tough thermoplastic polyurethane (TPU) jacket
Shielding option	Full copper braid shielding available upon request
Jacket colour	Black standard; orange optional

CHARACTERISTICS

- Flexible signal cable for longwall and other underground mining applications.
- Extra-tough TPU jacket for the physical demands of underground mining.
- Chemically cross-linked, non-chlorinated, flame-retardant polyolefin insulation.
- Available with full copper braid shielding upon request.
- Available in 2 to 9 conductors and 50 V rating.

TECHNICAL INFORMATION

Parameter	Unit	Value
Cable type		Longwall signal cable
Number of conductors		2 to 9
Rated voltage	V	50
Temperature rating	°C	+90
Conductor standard		ASTM B-174
Shielding option		Full copper braid upon request
Diameter tolerance		+/- 5% of nominal outside diameter

TECHNICAL DATA

DIMENSIONS, WEIGHT AND AMPACITY

Nominal construction dimensions, cable weight and current-carrying capacity from the supplied Word tables.

Size AWG / conductors	Number of conductors	Diameter over insulation in	Overall diameter in	Weight lb/ft	Part number
LONGWALL SIGNAL CABLE - 50 V					
18 / 2	2	0.115	0.440	0.087	36-202-018
18 / 3	3	0.115	0.460	0.100	36-203-018
18 / 4	4	0.115	0.490	0.117	36-204-018
18 / 5	5	0.115	0.520	0.136	36-205-018
18 / 6	6	0.115	0.560	0.156	36-206-018
18 / 7	7	0.115	0.560	0.163	36-207-018
18 / 8	8	0.115	0.630	0.197	36-208-018
18 / 9	9	0.115	0.660	0.215	36-209-018
16 / 2	2	0.125	0.460	0.099	36-202-016
16 / 3	3	0.125	0.480	0.114	36-203-016
16 / 4	4	0.125	0.510	0.133	36-204-016
16 / 5	5	0.125	0.550	0.158	36-205-016
16 / 6	6	0.125	0.590	0.183	36-206-016
16 / 7	7	0.125	0.590	0.190	36-207-016
16 / 8	8	0.125	0.660	0.225	36-208-016
16 / 9	9	0.125	0.690	0.247	36-209-016

NOTES

- Imperial values are reproduced from the supplied specification table.
 - The supplied specification lists cable dimensions and weight; ampacity is not specified.
- Tolerance: +/- 5% of nominal outside diameter.
 - Final cable selection must consider installation method, ambient conditions and applicable regulations.

TECHNICAL DATA

DIMENSIONS, WEIGHT AND AMPACITY

Nominal construction dimensions, cable weight and current-carrying capacity from the supplied Word tables.

Size AWG / conductors	Number of conductors	Diameter over insulation in	Overall diameter in	Weight lb/ft	Part number
LONGWALL SIGNAL CABLE - 50 V					
14 / 2	2	0.140	0.490	0.118	36-202-014
14 / 3	3	0.140	0.510	0.138	36-203-014
14 / 4	4	0.140	0.550	0.166	36-204-014
14 / 5	5	0.140	0.590	0.196	36-205-014
14 / 6	6	0.140	0.630	0.225	36-206-014
14 / 7	7	0.140	0.630	0.238	36-207-014
14 / 8	8	0.140	0.710	0.278	36-208-014
14 / 9	9	0.140	0.750	0.300	36-209-014
12 / 2	2	0.160	0.526	0.148	36-202-012
12 / 3	3	0.160	0.555	0.177	36-203-012
12 / 4	4	0.160	0.596	0.213	36-204-012
12 / 5	5	0.160	0.642	0.254	36-205-012
12 / 6	6	0.160	0.690	0.297	36-206-012
12 / 7	7	0.160	0.690	0.316	36-207-012
12 / 8	8	0.160	0.770	0.388	36-208-012
12 / 9	9	0.160	0.815	0.426	36-209-012

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TECHNICAL DATA

DIMENSIONS, WEIGHT AND AMPACITY

Nominal construction dimensions, cable weight and current-carrying capacity from the supplied Word tables.

Size AWG / conductors	Number of conductors	Diameter over insulation in	Overall diameter in	Weight lb/ft	Part number
LONGWALL SIGNAL CABLE - 50 V					
10 / 2	2	0.180	0.570	0.186	36-202-010
10 / 3	3	0.180	0.598	0.226	36-203-010
10 / 4	4	0.180	0.645	0.276	36-204-010
10 / 5	5	0.180	0.696	0.331	36-205-010
10 / 6	6	0.180	0.750	0.391	36-206-010
10 / 7	7	0.180	0.750	0.462	36-207-010
10 / 8	8	0.180	0.835	0.519	36-208-010
10 / 9	9	0.180	0.875	0.626	36-209-010

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CERTIFICATIONS



TEBAOFLEX CABLE