



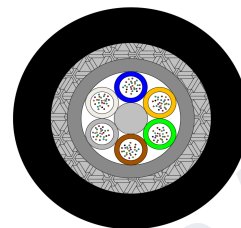
TEBAOFLEX CABLE

DATA SHEET

Mining&Industrial cable

G62.5/125 - G50/125 - E9/125 FIBER OPTIC SPREADER CABLE

Flexible fiber-optic cable for cranes and material-handling equipment



APPLICATION

Flexible fiber-optic cable for signal and data transmission on cranes and material-handling equipment. Suitable for reels, festoon systems and cable tenders at high data rates and large bandwidth.

KEY FEATURES

Parameter	Value
Application	Flexible fiber-optic cable for signal and data transmission on cranes and material-handling equipment
Data performance	Suitable for high data rates, large bandwidth and immunity to electromagnetic interference
Cable systems	For reels, festoon systems and cable tenders
Fiber options	G62.5/125, G50/125 multimode and E9/125 singlemode

DESIGN

Parameter	Value
Fiber core	62.5, 50 or 9 micrometers; 125 micrometers cladding; 250 micrometers coating
Core arrangement	Six fibers laid up in one layer around a GFK supporting element
Reinforcement	Special polyester braid, approximately 80% surface coverage
Sheath	PCP rubber compound, black

ELECTRICAL, THERMAL, MECHANICAL AND MATERIAL DATA

Parameter	Value
Standard	Based on FDDI, ISO/IEC 9314 Part 3 and DIN VDE 0888
Ambient temperature, fixed	-40 deg C to +80 deg C
Ambient temperature, flexible	-35 deg C to +80 deg C
Maximum tensile load	500 N
Torsional stress	+/- 50 deg/m
Bending radius, fixed/festoon	125 mm
Bending radius, reeling	250 mm
S-type guide distance	20 x D
Travel speed, gantry reel	Up to 120 m/min
Travel speed, trolley/festoon	Up to 240 m/min
Additional tests	Bending and reversed bending test
Resistance	Oil, ozone, UV and moisture resistant

TECHNICAL DATA

G62.5/125 MULTIMODE FIBER								
Configuration	Outer diameter min. mm	Outer diameter max. mm	Weight kg/km	Attenuation 850 nm dB/km	Attenuation 1300 nm dB/km	Bandwidth 850 nm MHz	Bandwidth 1300 nm MHz	Numerical aperture
6G62.5/125	14.9	17	280	3.3	0.9	400	600	0.275
12G62.5/125	14.9	17	280	3.3	0.9	400	600	0.275
18G62.5/125	14.9	17	280	3.3	0.9	400	600	0.275
24G62.5/125	14.9	17	280	3.3	0.9	400	600	0.275
G50/125 MULTIMODE FIBER								
Configuration	Outer diameter min. mm	Outer diameter max. mm	Weight kg/km	Attenuation 850 nm dB/km	Attenuation 1300 nm dB/km	Bandwidth 850 nm MHz	Bandwidth 1300 nm MHz	Numerical aperture
6G50/125	14.9	17	280	2.8	0.8	400	1200	0.20
12G50/125	14.9	17	280	2.8	0.8	400	1200	0.20
18G50/125	14.9	17	280	2.8	0.8	400	1200	0.20
24G50/125	14.9	17	280	2.8	0.8	400	1200	0.20
E9/125 SINGLEMODE FIBER								
Configuration	Outer diameter min. mm	Outer diameter max. mm	Weight kg/km	Attenuation 1300 nm dB/km	Attenuation 1550 nm dB/km	Numerical aperture	Dispersion 1300 nm	Dispersion 1550 nm
6E9/125	14.9	17	280	0.4	0.3	3.5	3.5	0.14
12E9/125	14.9	17	280	0.4	0.3	3.5	3.5	0.14
18E9/125	14.9	17	280	0.4	0.3	3.5	3.5	0.14
24E9/125	14.9	17	280	0.4	0.3	3.5	3.5	0.14

TECHNICAL DATA

CONSTRUCTION AND APPLICATION NOTES

Parameter	Value
Fiber dimensions	Core 62.5, 50 or 9 micrometers; cladding 125 micrometers; coating 250 micrometers
Core arrangement	Six fibers laid up in one layer around a GFK supporting element
Reinforcement	Polyester braid with approximately 80% surface coverage
Bending	125 mm fixed/festoon; 250 mm reeling
Travel speed	Up to 120 m/min gantry reel; up to 240 m/min trolley/festoon
Installation	Bending and reversed bending tests

CERTIFICATIONS



TEBAOFLEX CABLE