

## MSHA Rated Breakout Mining Cables

SPEC SHEET



### Features

- Most rugged cable design with individual subcables for routing and direct connector termination
- Helically stranded cable core for flexibility, survival in difficult pulls, and mechanical protection for the optical fibers
- High performance tight-buffered coating on each optical fiber for environmental and mechanical protection
- Fibers may be directly terminated using connectors, with no further protection required
- UV resistant, water and fungus resistant
- Core-Locked™ outer jacket surrounds the subcables for exceptional crush resistance, survivability, and use in long, vertical installations
- Designed for direct lashing, "J" hook applications, and vertical installations
- Cable is ideal for direct pulling with wire mesh grips

### Overview

- Individual fibers and strength members protected in a subcable configuration
- Ideal configuration for multiple termination point locations where subcables provide excellent strength and mechanical protection for connector termination
- Flame retardant - MSHA approved to Part 7, Subpart K of Title 30 Code of Federal Regulations (CFR)



## Characteristics

	Breakout Mining Cables
Operating Temperature	-40°C to +85°C
Storage Temperature	-55°C to +85°C
Installation Temperature (cable temp.)	-10°C to +60°C
Flame Retardancy	Part 7, Subpart K of Title 30 Code of Federal Regulations (CFR)
Crush Resistance	2,200 N/cm
Impact Resistance	1,500 impacts
Flex Resistance	2,000 cycles

## Standards

- GR-409-CORE
- ICEA-S-104-696
- ICEA-S-83-596
- TIA-568
- TIA-598



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### Specifications

Fiber Count	Part Number	Diameter mm (in)	Weight kg/km (lbs/1,000)	Tensile Load		Minimum Bend Radius	
				Installation N (lbs)	Operational N (lbs)	Installation cm (in)	Long Term cm (in)
2	BX002D***9*S	8.1 (0.32)	65.0 (44.0)	1200 (270)	500 (110)	12.2 (4.8)	8.1 (3.2)
4	BX004D***9*S	8.1 (0.32)	65.0 (44.0)	2000 (450)	800 (180)	12.2 (4.8)	8.1 (3.2)
6	BX006D***9*S	9.6 (0.38)	84.0 (56.0)	3000 (670)	1200 (270)	14.4 (5.7)	9.6 (3.8)
8	BX008D***94S	11.6 (0.46)	126.0 (85.0)	4000 (900)	1700 (380)	17.5 (6.9)	11.6 (4.6)
12*	BX012D***9*S	13.0 (0.51)	142.0 (95.0)	6000 (1350)	2500 (560)	19.5 (7.7)	13.0 (5.1)
18	BX018D***9*S	15.3 (0.60)	216.0 (145.0)	8000 (1800)	3500 (790)	23.1 (9.1)	15.3 (6.0)
24	BX024D***9*S	17.6 (0.69)	279.0 (188.0)	10000 (2250)	3800 (850)	26.5 (10.4)	17.6 (6.9)
36	BX036D***9*S	20.3 (0.80)	360.0 (242.0)	14000 (3150)	6000 (1350)	30.6 (12.0)	20.3 (8.0)
48	BX048D***9*S	23.6 (0.93)	483.0 (325.0)	18000 (4050)	7500 (1690)	35.5 (14.0)	23.6 (9.3)

\* 62.5 µm multimode and single-mode fiber. Specifications vary by fiber type.  
Installation loads in excess of 2,700 N (600 lbs) are not recommended.  
Other fiber counts available upon request.

Available from:  
  
 Cables Plus, LLC  
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[www.CablesPlusUSA.com](http://www.CablesPlusUSA.com)