



UHF-175 UHF LEAKY FEEDER CABLE

- Intrinsically Safe MSHA Certified
- Wireless Voice, Data, Video and Ethernet
- Up to 120m Off-Cable Coverage in a 4m Opening
- Up to 350m Amplifier Spacing

FEATURES

Becker Mining Systems' smartcom® 450 Leaky Feeder Cable acts as an antenna to bring wireless voice, data, video and Ethernet into mines and tunnels.

smartcom® 450 is better suited to room and pillar or longwall mines than smartcom® 150 as the signal propagates up to 4x better. As a result, the cable provides approximately 120 m coverage in a 4m opening.

TECHNICAL DATA

PERFORMANCE SPECIFICATIONS	
Max. Operating Frequency	6 GHz
Impedance	50 ± 2 Ω
Capacitance	76 pF/m
Inductance	0.190 uH/m
Inner Conductor DC Resistance	1.57 Ω/km
Outer Conductor DC Resistance	2.23 Ω/km
Attenuation	21 dB/350 m @ 475 MHz; 20 dB/350 m @ 455 MHz; 12 dB/350 m @ 145 MHz; 7 dB/350 m @ 20 MHz

MECHANICAL DATA	
Diameter	16.2 mm (0.64 in)
Cable Length/Roll	175 m (574 ft), Custom roll lengths also available
Minimum bend radius	1 m (3.3 ft)
Max tensile force	1000 N (225 lbs)
Cable Weight	0.26 kg/m (0.17 lbs/ft)
Cable Stand-off Height (approx)	10cm (4in)
Cable Attachment Drift Installation	Every 5m (16ft)
Cable Attachment Shaft Installation	Every 3m (10ft)

ENVIRONMENTAL DATA	
Storage Temperature	-70 to +85 °C (-94 to +185 °F)
Installation temperature	-25 to +60 °C (-13 to +140 °F)
Operation temperature	-40 to +85 °C (-40 to +185 °F)

APPROVALS	
MSHA	Yes

Technical data are limit values.

If the product is integrated into systems or operated in combination with other devices, its permissible operating values can deviate from these limit values. Subject to technical modifications without prior notice.

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