MSHA double-jacketed VHF/UHF mining leaky feeder cable

RNG-350

75-Ohm MSHA Mining Leaky Feeder Coaxial Cable

MSHA 30 CFR / VHF-75 · 75 Ω · Double-jacketed VHF/UHF mining leaky feeder cable



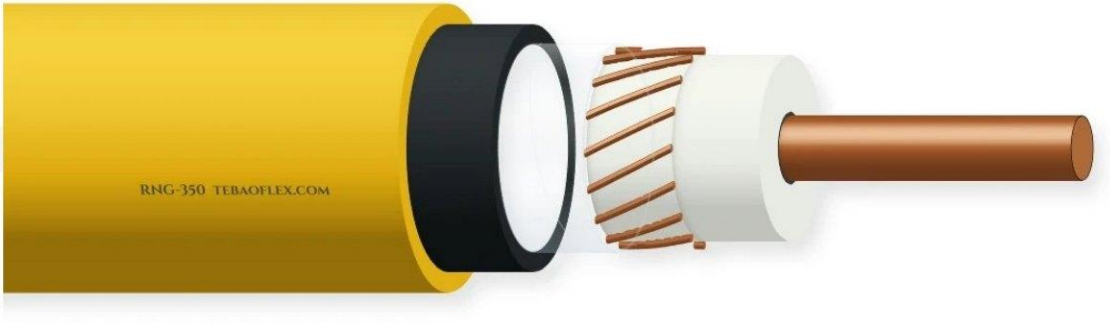
MSHA 30 CFR Approved | **75 ± 3 Ω VHF/UHF** | **Double-Jacketed Radiating**

Application

RNG-350 75-Ohm MSHA-approved double-jacketed radiating leaky feeder coaxial cable for underground mine VHF/UHF radio and tracking, with a 2.31 mm solid bare copper core, foamed PE dielectric, 16 helical radiating wires and yellow MSHA FR-PVC jacket.

Typical uses: Underground Coal & Hard-Rock Mining, Open-Cast Excavators, Draglines & Shovels, Vertical Mine Shafts, Hoists & Boreholes, Tunneling, Mineral Processing & Slurry Plants

Construction





Cross-section, not to scale

1. Inner Center Conductor (Ø 2.31 mm)
2. Foamed PE Dielectric (Ø 10.06 mm)
3. Helical Radiating Outer Conductor
4. Binder Tape & Black PE Inner Jacket
5. MSHA Yellow Outer Mining Jacket

Technical data

Typical values

Rated voltage / transmission duty	300 V (MSHA 30 CFR Part 7 / MIL-C-17 / IEC 61196)
Primary dielectric / buffering	Foamed PE Dielectric (Ø 10.06 mm) — High-velocity semi-air-spaced foamed polyethylene insulation (75 ± 3 Ω)
Short-circuit / peak thermal rating	Verified thermal stability per MSHA 30 CFR Part 7 / MIL-C-17 / IEC 61196
Outer protection / armouring	MSHA Yellow Outer Mining Jacket — High-visibility yellow MSHA flame-resistant low-smoke PVC jacket
Crush, impact & abrasion duty	Heavy-duty mining rock-cut, impact and tensile protection per MSHA 30 CFR Part 7 / MIL-C-17 / IEC 61196
Mine water, oil & chemical resistance	Resistant to acidic mine water, hydraulic oils and abrasion per MSHA 30 CFR Part 7 / MIL-C-17 / IEC 61196
Standards	MSHA 30 CFR Part 7 / MIL-C-17 / IEC 61196
Core / conductor construction	Inner Center Conductor (Ø 2.31 mm) — Solid soft-drawn bare copper center conductor
Continuous operating temperature	-30 to +80 °C (mining & industrial service)
Storage & transport temperature	−40…+80 °C on export wooden/steel drum
Minimum bending radius	12 × OD
Flame retardancy & mine fire safety	Self-extinguishing / flame-retardant mining jacket per MSHA 30 CFR Part 7 / MIL-C-17 / IEC 61196
RoHS & REACH compliance	RoHS 2 (2011/65/EU + 2015/863) & REACH SVHC compliant

Sizes

3 standard constructions

Tick the sizes you need and send this page to info@tebaoflex.com or WhatsApp +86 185 9591 3361.

Order designation	Configuration	Core / stranding	Outer Ø ≈ mm	Net weight ≈ kg/km	Tensile rating kN ≈	Min. bend R mm
RNG-350 Construction Schedule (-30 to +80 °C) 3 sizes						
☐ **RNG-350 75-Ohm Double-Jacketed Yellow MSHA**	Ø 2.31 mm Cu / Ø 10.06 mm Foam PE	Solid Cu + 16×23 AWG screen	14.5	212	1.1	175
☐ **RNG-350M 75-Ohm Figure-8 with Steel Messenger**	Ø 2.31 mm Cu + Ø 3.2 mm Steel Strand	Solid Cu + Galvanized Messenger	21.8	310	6.5	200
☐ **RNG-500 75-Ohm Low-Loss Main Haulage Trunk**	Ø 3.12 mm Cu / Ø 13.2 mm Foam PE	Solid Cu + 16×22 AWG screen	17.8	305	1.6	215

– Custom core cross-sections, pair/fibre counts, armour grades and factory drum lengths available per MSHA 30 CFR Part 7 / MIL-C-17 / IEC 61196.

Electrical, optical & thermal parameters

3 sizes

Configuration	Max. DC R_{20} / Atten. Ω/km or dB/km	Rating / Impedance	Operating temp.
RNG-350 Standard (150 / 450 MHz)	4.20	3.1 / 6.2 dB/100m · 82% Vf	-30 to +80 °C
RNG-350M Messenger (150 / 450 MHz)	4.20	3.1 / 6.2 dB/100m · 82% Vf	-30 to +80 °C
RNG-500 Low-Loss (150 / 450 MHz)	2.35	2.2 / 4.5 dB/100m · 84% Vf	-30 to +80 °C

– Every production length undergoes routine conductor DC resistance, high-voltage Spark/AC dielectric or OTDR continuity and dimensional verification.

Standards and approvals

- MSHA / 75 Ω Compliant
- EN 10204 3.1 Factory Test Certificate
- CE, RoHS 2 (2011/65/EU) & REACH

Certifications

Management systems: ISO 9001, ISO 14001, ISO 45001

Request a quotation

Send the size, length and destination. An application engineer replies within 2 business hours.

WhatsApp / phone
+86 185 9591 3361

Email
info@tebaoflex.com

Web
tebaoflex.com/cables/rng-350-75-ohm-msha-double-jacketed-vhf-uhf-mining-leaky-feeder-coaxial-cable

Typical values for this cable type, based on MSHA 30 CFR Part 7 / MIL-C-17 / IEC 61196. Values for your order are confirmed in the quotation. Subject to change without notice. Jiangsu Tebaoflex Special Cable Co., Ltd., Taicang, Jiangsu, China.