

LEAKY FEEDER CABLE – ULFC

- UHF LEAKY FEEDER CABLE
- FLAME RETARDANT INNER SHEATH
- MEETS IEC 1196
- MEETS EU STANDARD EN50117
- BLUE OUTER SHEATH
- LO-SMOKE HALOGEN FREE



DESCRIPTION

MCA2000 ULFCPE Leaky Feeder cable is a MineCom branded proprietary cable, which has been designed specifically for use with MineCom's range of UHF MCA2000 amplifiers and ancillary devices.

The ULFCPE is MineCom's UHF Halogen Free (lo-smoke) leaky feeder cable, manufactured from (PE) Polyethylene material. The cable is supplied in 350m drums, with 0 to 350 metre marks printed along the cable. The ULFC cable has a radiation pattern of 360 degrees around the cable; it MUST be suspended at least 100mm BELOW the catenary cable, to achieve a reasonable radiation pattern at UHF frequencies. *(Cable hangers are available on request)*

The cable has a black flame retardant inner sheath, with a BLUE outer sheath branded as 'MineCom MCA2000 UHF Leaky Feeder Cable Halogen-Free'.

The cable has a centre foam dielectric, which makes the cable more robust. This cable is also available with a standard NON-halogen free outer jacket model ULFC.

#All Minecom devices utilise MineCom's proprietary leaky feeder terminal and saddle leaky feeder connections. Coaxial connectors will incur higher losses and voltage drops, when used with this type of leaky feeder cable. The cable and the connection method has been adopted specifically for mine and tunnel construction use, allowing for easy assembly underground, without the need for special tools or skills.

SPECIFICATIONS

Frequency	5 to 500Mhz
Impedance	75 ohm
Attenuation @ 150MHz	4.0dB/100m
Attenuation @ 450MHz	6.1dB/100m
Dielectric	Gas Injected PE
Inner Sheath	BLACK – Fire Retardant
Outer Sheath	BLUE – Halogen Free
DC Resistance inner conductor	< 4.5 ohm/km
DC Resistance outer conductor	< 4.1 ohm/km
Capacitance	54pF/m
Insulation Resistance	> 10.4 Moho/km
Minimum Static Bend radius	150mm
Operating Temperature	-40 to +70 degree C
Outer Sheath Diameter	16.0mm +/-0.3mm

Coupling Loss	50%	90%
85MHz	73.0dB	76.0dB
150MHz	75.7dB	83.5dB
345MHz	78.7dB	85.5dB
450MHz	77.0dB	83.0dB