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**MINECOM**

A division of TR Corporation

## 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 & 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 & saddle leaky feeder connections. Coaxial connectors will incur higher losses & voltage drops, when used with this type of leaky feeder cable. The cable & the connection method have been adopted specifically for mine & tunnel construction use, allowing for easy assembly underground, without the need for special tools or skills.



### SPECIFICATIONS

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

<b>Coupling Loss</b>	<b>50%</b>	<b>90%</b>
85MHz:	73.0dB	76.0dB
150Mhz:	75.7dB	83.5dB
345Mhz:	78.7dB	85.5dB
450Mhz:	77.0dB	83.0dB