TIMES MICROWAVE SYSTEMS

LMR®-200-75 Ohm Flexible Low Loss Coaxial Cable

Ideal for...

- Satellite Applications
- · Video Applications-CCTV, CATV, baseband or broadband
- In-Building Feeder Runs
- Any 75 ohm Wireless Application requiring an easily routed,



- LMR®-75 standard is a UV Resistant Polyethylene jacketed cable designed for 20-year service outdoor use. The bending and handling characteristics are significantly better than any smooth wall or corrugated hard-line cables.
- **Flexibility** and bendability are hallmarks of the LMR-200-75 cable design. The flexible outer conductor enables the tightest bend radius available for any cable of similar size and performance.
- Low Loss is another hallmark feature of LMR-75. Size for size LMR-75 has the lowest loss of any flexible cable and comparable loss to semirigid hard-line cables.
- **RF Shielding** is 50 dB greater than typical single shielded coax (40 dB). The multi-ply bonded foil outer conductor is rated conservatively at > 90 dB (i.e. > 180 dB between two adjacent cables).
- **Weatherability**: LMR-75 cables designed for outdoor exposure incorporate the best materials for UV resistance and have life expectancy in excess of 20 years.
- Connectors: Standard available connectors include type-N and type-F male plug with 75 ohm interface. Most LMR-75 connectors are the EZ install type with crimp outer and non-solder center contact attachment.
- Cable Assemblies: All LMR-75 cable types are available as pre-terminated cable assemblies. Refer to the section on FlexTech for further details.

| Part Description | | | | | |
|------------------|---------------|----------------|--------|-------|---------------|
| | Part Number | Application | Jacket | Color | Stock Code |
| I | LMR-200-75 | Indoor/Outdoor | PE | Black | 54213 |
| ı | LMR-200-75-DB | Outdoor | PE | Black | 54242 |

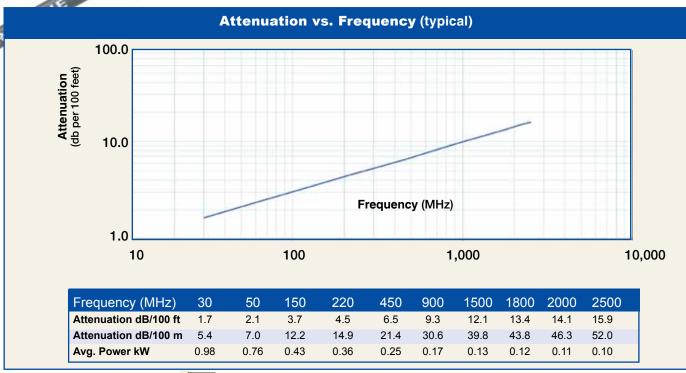
| Construction Specifications | | | | | | | |
|-----------------------------|---------------|-------|--------|--|--|--|--|
| Description | Material | ln. | (mm) | | | | |
| Inner Conductor | Solid BC | 0.025 | (0.64) | | | | |
| Dielectric | Foam PE | 0.116 | (2.95) | | | | |
| Outer Conductor | Aluminum Tape | 0.121 | (3.07) | | | | |
| Overall Braid | Tinned Copper | 0.144 | (3.66) | | | | |
| Jacket | Black PE | 0.195 | (4.95) | | | | |

| Mechanical Specifications | | | | | | | | |
|---------------------------|----------------|-------|----------|--|--|--|--|--|
| Performance Property | Units | US | (metric) | | | | | |
| Bend Radius: installation | in. (mm) | 0.5 | (12.7) | | | | | |
| Bend Radius: repeated | in. (mm) | 2 | (50.8) | | | | | |
| Bending Moment | ft-lb (N-m) | 0.2 | (0.27) | | | | | |
| Weight | lb/ft (kg/m) | 0.022 | (0.03) | | | | | |
| Tensile Strength | lb (kg) | 40 | (18.2) | | | | | |
| Flat Plate Crush | lb/in. (kg/mm) | 15 | (0.27) | | | | | |

| Environmental Specifications | | | | | | |
|--------------------------------|----------|---------|--|--|--|--|
| Performance Property | °F | °C | | | | |
| Installation Temperature Range | -40/+185 | -40/+85 | | | | |
| Storage Temperature Range | -94/+185 | -70/+85 | | | | |
| Operating Temperature Range | -40/+185 | -40/+85 | | | | |

| Electrical Specifications | | | | | | |
|---------------------------|-------------------|-------|----------|--|--|--|
| Performance Property | Units | US | (metric) | | | |
| Max Operating Frequen | cy GHz | 2.5 | | | | |
| Velocity of Propagation | % | 83 | | | | |
| Dielectric Constant | NA | 1.45 | | | | |
| Time Delay | nS/ft (nS/m) | 1.22 | (4.02) | | | |
| Impedance | ohms | 75 | | | | |
| Capacitance | pF/ft (pF/m) | 16.3 | (53.6) | | | |
| Inductance | uH/ft (uH/m) | 0.092 | (0.30) | | | |
| Shielding Effectiveness | dB | >90 | | | | |
| DC Resistance | | | | | | |
| Inner Conductor | ohms/1000ft (/km) | 16.8 | (55.1) | | | |
| Outer Conductor | ohms/1000ft (/km) | 4.9 | (16.1) | | | |
| Voltage Withstand | Volts DC | 1000 | | | | |
| Jacket Spark | Volts RMS | 3000 | | | | |
| Peak Power | kW | 2.5 | | | | |





Calculate Attenuation = (0.300717) • $\sqrt{\text{FMHz}}$ + (0.000335) • FMHz (interactive calculator available at http://www.timesmicrowave.com/cable calculators) Attenuation: VSWR=1.0; Ambient = +25°C (77°F)

Power: VSWR=1.0; Ambient = +40°C; Inner Conductor = 100°C (212°F); Sea Level; dry air; atmospheric pressure; no solar loading

| Conne | ctors | Part | Stock | VSWR** | Coupling | Inner Contact | | Finish* Body | Length | Width | We | ight |
|-----------|---------------|---------------|-----------|---------------|----------|------------------|----------|-----------------|------------|-----------|------------|--------|
| Interface | Description | Number | Code | Freq. (GHz) | | | Attach | | in (mm) | in (mn | ı) Ib | (g) |
| 1. F Male | Straight Plug | EZ-200-FMH-75 | 3190-1611 | <1.35:1 (2.5) | Hex | Spring Finge | er Crimp | N/G | 1.1 (27.0) | 0.50 (12. | 7) 0.015 | (6.8) |
| 2. N Male | Straight Plug | EZ-200-NM-75 | 3190-1612 | <1.35:1 (2.5) | Knurl | Spring Finge | er Crimp | N/G | 1.5 (38.1) | 0.83 (21. | 1) 0.073 (| (33.1) |

* Finish metals: N=Nickel, S=Silver, G=Gold, SS=Stainless Steel, A=Alballoy **VSWR spec based on 3 foot cable with a connector pair



Install Tools

| Туре | Part Number | Stock Code | Description |
|-----------------|----------------|---------------|--|
| Crimp Tool | CT-240/200/195 | 3190-667 | Crimp tool for LMR 240, 200 and 195 |
| Strip Tool | CST-195/200 | 3192-102 | Combination prep tool for LMR-195/200 crimp and clamp connectors |
| Cutting Tool | CCT-02 | 3192-165 | Cable end flush cut tool |
| Replacement Bla | de Kit RB-CST | 3192-086 | Replacement blade kit for all CST tools |
| Debur Tool | DBT-U | 3192-001 | Removes center conductor rough edges |

Accessories

| 71000001100 | | | | | | | |
|-------------|----------------|---------------|------------------------|--|--|--|--|
| Туре | Part Number | Stock Code | Description | | | | |
| Ground Kit | GK-S200TT | GK-S200TT | Standard Grounding Kit | | | | |

