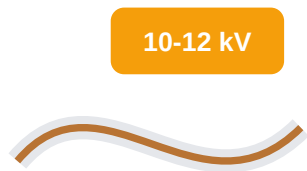


OPERATION MANUAL

YONUSA CDA50 | 50 m Double-Insulated High-Voltage Cable for Electric Fences



Model CDA50

TVC Code: YON1270001 | 22 AWG | 50 meters

Description

High-voltage cable designed to safely carry energy from an electric-fence energizer to the energized fence wires. Its double insulation helps reduce leakage and supports stable operation in perimeter-security installations.

1. Main Specifications

Length	50 m
Gauge	22 AWG
Conductors	7 conductors per cable
Conductor material	Tinned copper
Insulation	Silicone and polypropylene
Jacket	Flame-retardant PVC
Protection	UV-resistant treatment
Insulation thickness	3.5 mm
Jacket thickness	1.04 mm
Outer diameter	5.55 mm
Insulation temperature	70 to 90 °C
Application voltage	For 10,000 to 12,000 V systems

INSTALLATION AND USE

Applying the CDA50 cable in electric-fence systems

2. Recommended Applications

- Connection between the energizer and the electric fence to carry high voltage to the energized wires.
- Underground runs at vehicle entrances, gates, or traffic areas while maintaining the required insulation.
- Interconnection of different sections or runs of an electric fence.
- Perimeter-security installations for homes, industrial facilities, warehouses, ranches, schools, and businesses.
- Jumpers and extensions between energized lines, return lines, or separated zones of the same system.

3. General Installation Procedure

1. Completely de-energize the energizer before handling any fence conductor.
2. Define the cable route from the energizer to the fence connection point or to the section that needs to be interconnected.
3. Cut only the length required, leaving enough extra cable to make the connections without mechanical stress.
4. Prepare the ends by removing only the amount of jacket needed to make a secure connection, taking care not to damage the internal conductors.
5. Connect the cable to the appropriate energizer terminal and to the fence conductor according to the wiring diagram for the energizer being used.
6. For underground runs or areas exposed to moisture, protect the physical cable route and avoid unnecessary splices.
7. Before energizing the system, inspect the cable for cuts, crushing, punctures, or damaged insulation.
8. Energize the system and verify that the fence operates without leakage, unintended arcing, or abnormal alarms.

Conceptual connection diagram



SAFETY, INSPECTION AND MAINTENANCE

YONUSA CDA50

4. Safety Recommendations

- The cable is used in very high-voltage systems. Do not handle it while the energizer is switched on.
- Do not use cable with cuts, punctures, burned insulation, cracking, or severe crushing.
- Avoid extremely tight bend radii, strong twisting, and permanent mechanical tension.
- Keep all connections secure and protected to reduce the risk of poor contact or electrical leakage.
- For outdoor runs, take advantage of the UV-resistant treatment but avoid locations where the cable may be physically damaged by tools, vehicles, or animals.
- Do not substitute this cable with low-voltage conductors or wiring not designed for electric-fence applications.

5. Inspection and Maintenance

- Periodically inspect the outer jacket and insulation, especially at conduit entries, corners, underground runs, and connection points.
- Verify that terminals remain tight and free from corrosion.
- If insulation damage is found, replace the affected section instead of operating the system with a temporary repair.
- After any maintenance work, energize the system and confirm normal fence operation before returning it to service.

6. Standards Listed for the Product

- NMX-J008-1995 (ASTM B3-90)
- NMX-J297-1995 (ASTM B174-90)

About this manual

TVC en Línea publishes product data and application information for the CDA50 but does not provide a separate operation manual. This document was prepared as a practical installation and use guide based on the published product information. General safety recommendations are presented as good practices for electric-fence work.