



Rhino Handset

The Rhino handset is designed to meet or beat all of the published specifications for handsets for use on public terminals in North America. The handset has strength and durability characteristics that exceed any handset that is manufactured in North America and all handsets that are imported to the United States.

The electrical specifications for handsets are based on the type of phone and/or customer specifications for the application in which the handset is intended. Generally, either carbon or magnetic (DuraClear) microphones and magnetic receivers are used. The electrical components are manufactured to meet the interface standards for the variety of public terminals that are in use. Engineering staff with experience in Telephony have ensured that the Rhino handset is the best handset product on the market today. Standard lengths of 18", 24" and 32" are readily available and custom sizes can be ordered.

Impact Strength of Plastic Handle: Exceeds 80 foot-pounds. (This is tested using an eight-pound sledge that is dropped 10 feet. Five impact points are hit in succession.) All competitive handsets tested failed the 80 ft-lb impact test, and most fail a 40 ft-lb impact test.

Pull Strength: Exceeds 1000 foot-pounds. (Actual results are around 1200 ft-lbs. This test is the handset as a unit, not just the lanyard. The test is done by connecting the plastic handle to one end of the test fixture and the retaining stop on the end of the lanyard to the other end of the test fixture. This ensures that the plastic, the lanyard, and the stops on both ends of the lanyard can withstand a pull of at least 1000 ft-lbs.) All competitive handsets, even those using a heavy-duty lanyard, fail. Usually their failure is the stops pull loose or the plastic breaks or pulls out. Most competitive handsets fail at around 325 ft-lbs of pull or less.

Cap Removal Torque: Exceeds 125 foot-pounds. (This ensures that the caps cannot be removed by the public using small hand tools or bare-hands. As a comparison, lug bolts for car tires require about 75 ft-lbs of torque to remove.) No competitive handset comes close to this specification, with most opening at around 35 ft-lbs or less.

Wire: Stranded wire of at least 24 gauge is used to ensure good transmission quality and flexibility and durability. The insulation is Teflon, which does not support a flame from heat. (Cigarette lighters on other types of insulation will cause the insulation to catch fire and burn.) Most competitors use a smaller gauge wire and a cheaper insulation, resulting in potential problems for transmission and fire.

Electrical Connections: AMP (Tyco) connectors are used for all electrical connections, except for direct connections (solder) that are used on critical points where moisture or vandalism can be a problem with pressure connectors.

Plastic: A special blend of lexan plastic is used that has high strength, won't maintain a flame once the heat source is removed and has UV protection for sun exposure.

Armored Cord: Flexible interlocking stainless steel.

The above specifications result in a low handset replacement rate with Rhino. Standard industry replacement rates where the Rhino is not used is above 35%. The Rhino replacement rate is typically below 10%. If you assume labor cost is \$100 to replace a handset, the longer a handset lasts, the better your bottom line.

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