



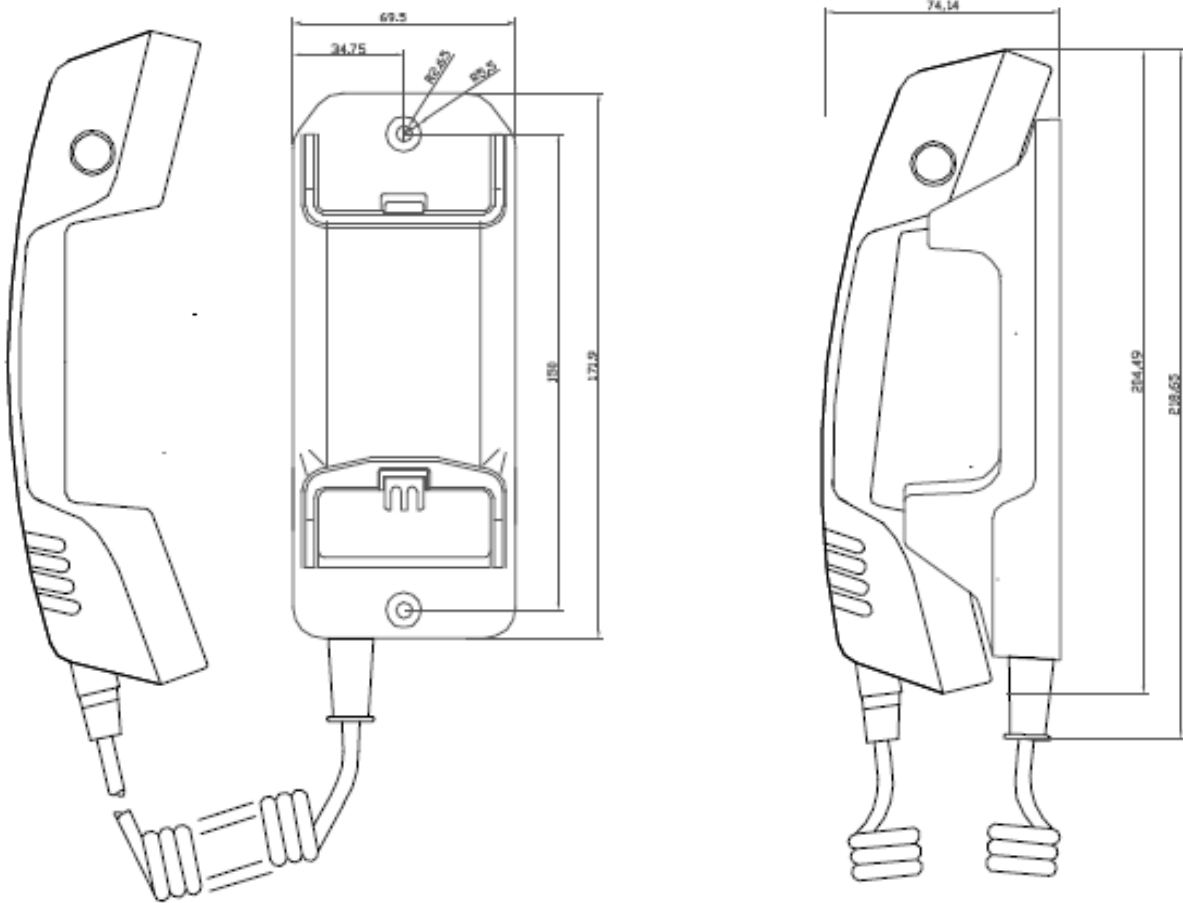
## OEM TUFF HANDSET



The 'Tuff Handset' is available as an OEM product to help enhance the durability of other devices that have either suffered loss due to vandalism or to improve the visual effect and touch and feel of a product.

The patented 'Tuff Handset' is moulded in polyurethane and designed to withstand arduous use in all environments. The handset can be fitted with an armoured cord in place of the robust curly cord, if required to provide additional resistance to vandalism. Rated at IP65 means the handset can be used in extreme environments of dust and moisture.

The 'Tuff Handset' is available with a number of different options including magnets to operate reed relays, one or two PTT (Push to Talk) switches and a variety of different transducer combinations.



**Handset Material: Desmopan® 588 Thermoplastic Polyurethane.**

| Physical Properties                | Metric               | English                   | Comments    |
|------------------------------------|----------------------|---------------------------|-------------|
| Density                            | 1.15 g/cc            | 0.0415 lb/in <sup>3</sup> |             |
| <b>Mechanical Properties</b>       |                      |                           |             |
|                                    | Metric               | English                   | Comments    |
| Hardness, Shore A                  | 88.0                 | 88.0                      | DIN 53505   |
| Elongation at Break                | >= 50.0 %            | >= 50.0 %                 | Nominal     |
| Compression Set                    | 30.0 %               | 30.0 %                    | 70 hr; 22°C |
|                                    | 65.0 %               | 65.0 %                    | 24 hr       |
|                                    | @Temperature 70.0 °C | @Temperature 158 °F       |             |
| <b>Electrical Properties</b>       |                      |                           |             |
|                                    | Metric               | English                   | Comments    |
| Electrical Resistivity             | 3.00e+12 ohm-cm      | 3.00e+12 ohm-cm           |             |
| Surface Resistance                 | 6.00e+11 ohm         | 6.00e+11 ohm              |             |
| Dielectric Constant                | 5.00                 | 5.00                      | 1 MHz       |
| Dielectric Constant, Low Frequency | 6.30                 | 6.30                      | 100 Hz      |
| Dielectric Strength                | 20.2 kV/mm           | 513 kV/in                 |             |
| Dissipation Factor                 | 0.0840               | 0.0840                    | 1 MHz       |