

Temporary *STICKDOWN* Flat Loop

The temporary stickdown flat loop has been developed for applications where a short term loop based vehicle detection actuation is required. The flat loop is made from rugged Grace Bituthene membrane material, and the cable has a non-inflammatory tough ETFE insulation sheath. A kit including the flat stickdown loop, rugged feeder cable, feeder 'tracking' cable tapes, sealants and cleaners is available. Loops are provided subject to order with precut feeder cables. These lengths correspond to nominal lane widths plus a pit length to avoid wastage.



The flat loop may be stuck down on any clean road surface. The position is selected by observing traffic movements and positioning to maximise vehicle actuation through the greater proportion of the vehicle transgressing the temporary loop area and associated electromagnetic field.

The installation procedure is simple- select the optimal position, clean the road surface of any loose material in the area where the loop will be placed, and the path where the feeder wire 'tracks' from roadside to loop. The road surface area may be primed to maximise adherence and longevity. Peel off the non-stick surface and adhere the flat loop to the road surface. Flatten using the weight of a vehicle in a controlled direction. Best adhesive results are achieved if the material is heated prior to flattening.



USES and APPLICATIONS

- Temporary traffic light installations
- Portable traffic signal dities
- Loop failures – temporary maintenance of vehicle actuated operation during loop re-instatement period
- Traffic surveys
- Traffic pattern evaluation – early call analysis
- Hazardous locations – activation of flashing safety beacons



Loop Format – nominal dimensions standard model

| | |
|-----------------|----------------|
| Length | 1,000 mm |
| Breadth (width) | 400 mm |
| Thickness | 5-8 mm nominal |



Stick Down Flat Loop Electrical Characteristics

| | |
|--------------------------------|-----------------|
| Nominal Inductance | 40 microhenries |
| DC Resistance | < 2 ohms |
| Typical Tuning Frequency Range | 60-70 KHz |
| Typical 'Q' | Q > 8 |

Material Characteristics

Base and Surface Sheet

| | |
|--|-------------------------|
| Derived from Grace Bituthene membrane technology | |
| Composite fabric with adhesive rubber bitumen compound | |
| Tensile strength | 40,000 kNm ² |
| Puncture resistance | 900 N |

Loop Wire

| | |
|--------------------------|-----------------|
| Wire Size | 2AWG16 |
| Wire Sheath | EFTE material |
| Operational Temperature | -65°C to 155°C |
| Dielectric test voltage | 3 KV |
| Minimum tensile strength | 3 kg/sqm |
| Electrical Resistance | 0.015/m at 20°C |

Physical Characteristics

| | |
|-----------------|------------------------|
| Length | 1 metre (longitudinal) |
| Breadth (width) | 400 mm |
| Thickness | nominal 5 mm |
| Temperature | 70°C to 85°C |
| Load (Force) | 900 N |

Ordering Information

| | |
|-----------------------------|---|
| Specify feeder cable length | Typical lengths 8 m, 12 m, 18 m |
| Quantity purchases | Discuss specific variations from the standard package specification with ETG's engineering team |

Freestyle Design

Material to configure and install your own loop design may be purchased from ETG