



Field Accessories List

Traffic survey Field Accessories for use with your MetroCount Vehicle Classifier System



A C C E S S O R I E S

	Accessory	Picture	Weight
<i>KFULL</i>	Full Field Kit - comprises: <ul style="list-style-type: none"> • 30m Road Tube • 12 Road Nails • Figure-8 Cleats • 2 Centre Lane Flaps 		4.0kg 11lbs
<i>KTUBE30</i>	Road Tube, 30 metre roll		3.6kg 8lbs
<i>KFIG8S</i>	10 pack Figure-8 Road Cleats (for standard road nail)		0.1kg 0.2lbs
<i>KFIG8L</i>	10 pack Large Figure-8 Road Cleats (for Deck Spike on gravel roads)		0.1kg 0.2lbs
<i>KFLAP</i>	10 pack Centre Lane Flaps		0.3kg 0.66lbs
<i>KNAIL</i>	50 pack Standard Road Nails (70mm)		1.0kg 2.2lbs
<i>KSPIKE</i>	10 pack Deck Spikes (200mm, for unsealed roads)		1.3kg 2.9lbs
<i>KBIKE30</i>	30m High sensitivity bicycle tube		1.7kg 3.8lbs
<i>KBATPACK</i>	MC5600 6V Welded Battery Pack		590g 1.3lbs

NB: A minimum order value applies to any orders placed.

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Specification for Road Tube

Scope

This Specification covers the requirements for RUBBER ROAD TUBE to be used for the detection and classification of vehicles on roads.

Application

The rubber tube is stretched across the roadway and anchored to the pavement at right angles to the flow of traffic. One end is blocked and the other end is terminated in a detector/ classifier box. The rubber tube forms part of a vehicle detection system, actuations being generated by individual tyres (axles). The detection system is required to detect vehicles travelling at speeds up to 140 km/h with a minimum resolution of 25 milliseconds between actuations. The detection system comprising the rubber tube is not intended for permanent installation, but it is suitable for continuous use for periods up to nine months or two million actuations.

Physical Characteristics

Dimensions: (For Road Tube)

Outside Diameter: 12.7 to 13.5mm. *Inside Diameter:* 5.3 to 5.7mm.

Coil Length: 98.0 to 102.0 feet (29.9 to 31.0 metres).

Hardness: The hardness, when determined in accordance with ASTM D2240, has a nominal value of between 55 to 70 Shore Durometer Type A.

Colour: The colour of the tube is black.

Contamination: The inside of the tube is clean, dry, non-sticky and free from contaminants such as glycerine and powder.

Performance Standard

Durability: The tube is designed to withstand up to two million wheel actuations without significant fatigue, cracking or loss of shape, dependent upon operating conditions. This expected level of actuations is based upon benchmark operating conditions of a hot poured flat asphalt road surface, dry weather, medium weight axle loads and rolling (i.e. not in severe braking or accelerating zones) vehicle speeds between 60 to 65 km/h.

Recovery Rate: The recovery rate of the tube, is such that the tube regains 70 percent of its initial diameter within 25 ms after release of the compression force.

Environmental Condition: The tube is suitable for direct exposure to the weather and stabilised against ultraviolet radiation. The operation temperature range is -10 to +70 degrees C.

Packaging

Rubber Road Tube is supplied in 100 ft (30 m) coils securely strapped.

Storage Conditions

Rubber Road Tube Is to be stored away from heat and direct light, a cool dark place if possible.

NB: The above is per manufacturer's certification re standard Road Tube, MetroCount stocks.

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