



# HYDRO CONNECT HYDRAWISE FLOW METER SHIELDED COMMUNICATION CABLE

## HC-FMC0210xxx Direct Burial

INSULATION: **PVC V90 to AS/NZS 3808:2000 – Yellow and Grey Cores**

SHEATH: **Aluminium Shield and PE Sheath**

SHEATH COLOUR: **Blue (PMS280C)**

SIZE: **1.0mm<sup>2</sup> – Twisted 2 Core with Drain Wire**

### SCOPE:

This specification covers requirements for a direct burial shielded cable designed to communicate signals between a Hunter Industries Hydrawise flow meter and Hydrawise Irrigation Controllers models HC, HPC, Pro-HC and HCC. The cable utilizes stranded insulated conductors, aluminium shield and drain wire to minimize electrical, magnetic, and radio frequency interference.

### PHYSICAL SPECIFICATIONS:

1.0mm<sup>2</sup> 2 cores of 7/0.43 multi stranded class 2 plain copper conductor to AS1125, insulated with V90 PVC insulation, are sheathed with a PE sheath. This cable is suitable for direct burial. Insulation and sheath are UV stabilised.

### MANUFACTURER'S IDENTIFICATION:

Surface marked with HYDRO CONNECT HYDRAWISE FLOW METER DIRECT BURIAL COMMUNICATION CABLE , HC-FMC0210 2 core 1.0mm<sup>2</sup>, batch number, sequential meterage every 1 meter 001M >|<, RoHS.

Printed on sheath, low number on bottom of spool, high number on top.

### SPLICING RECOMMENDATIONS

It is not recommended that communication cable be joined between the Hydrawise flow meter and the Hydrawise Irrigation Controller. The maximum recommended cable length between the flow meter and controller is 300m.

### DRAIN WIRE GROUNDING

The drain wire permits a continuous, low-resistance connection to the cable's metallic shield, resulting in very effective grounding.

Rules for grounding shielded cable:

- One end of the drain wire needs to be connected to ground, never connect both ends to ground.
- Cable grounding should be isolated from other grounding systems.
- Ground the drain wire via the shortest route.

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Code	Number of Cores	Number of Strands x Wire Dia (mm)	Nominal Area (mm <sup>2</sup> )	Max D.C. Resistance at 20°C (mΩ/m)	Nominal Insulation Thickness (mm)	Nominal Sheath Thickness (mm)	Nominal O.D. (mm)
<b>Circular 2 Core &amp; Drain</b>							
HC-FMC0210xxx	2	7/0.43	1.0	21.2	0.40	1.2	7.0

## CONSTRUCTION:

### Pack Size:

100 and 300 metres. Other custom pack sizes available upon request.

### Conductors:

1.0mm<sup>2</sup> bunched plain annealed Cu Class 2 7/0.43 conductors conforming to AS1125.  
Maximum DC resistance of conductors at 20°C 21.2 Ω/km

### Insulation:

V90 PVC insulation nominal thickness 0.4mm, yellow and grey.

### Cable Assembly:

The insulated conductors and the drain wire are twisted together with a 75mm maximum lay. PP fillers are inserted in the valleys to ensure roundness.

### Shield:

50μ Aluminium PET/23μ Polyester Tape and Drain Wire 7/0.25TAC

### Sheath:

Blue PE sheath nominal thickness 1.2mm, UV stabilised.