



Spring Rewind Bonding Reel

Part No DDA12221

Technical Data

The unit is capable of high frequency operation with only high quality materials used in it's construction. The centre pin is made of stainless steel, mounted within oilite bushings and the spring housing is manufactured in aluminium alloy. The drum, cheek plates and mounting bracket are manufactured in zinc plated mild steel. Provision is made for seventy-two operational turns with five further pretension turns to secure the cable. There are four separate guide positions permitting mounting and operation in any orientation.

Options

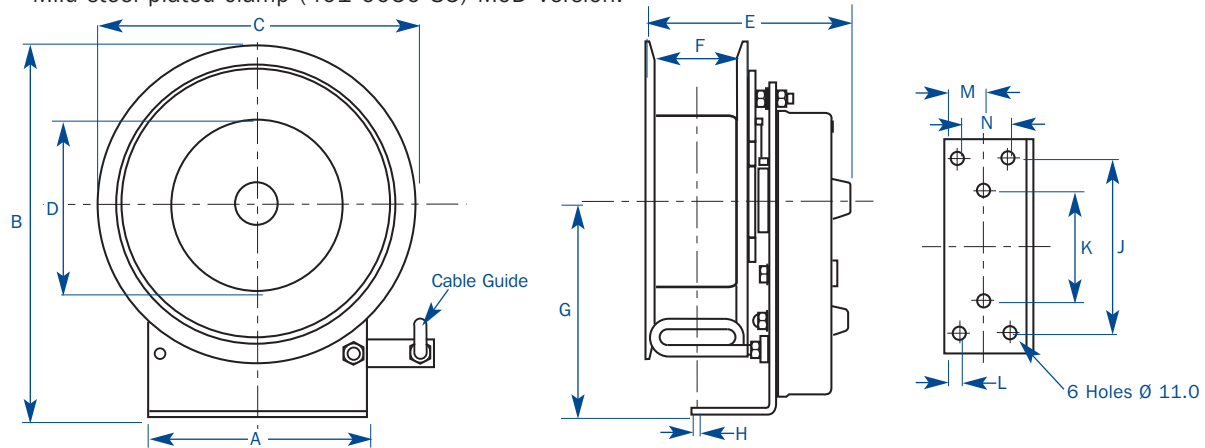
The Spring Rewind Bonding Reel is available with varying lengths and types of cable and three different clamp types. The standard unit comes complete with copper braided cable suitable for use down to -19°C (DA9519), rubber bump stop (DAM12244) and a small brass clamp (0100213002). A UK MoD Approved Version is also available.

Cable options

- Clear PVC covered copper braided cable Ø3.4mm with a clear PVC cover Ø5.4mm dia (suitable for applications above minus 19°C DA9519).
- Low temperature cable for applications between -19°C to -40°C SK2665.
- High visibility cable with increased luminosity DW20749.

Clamp options

- Large brass clamp (0100213001).
- Mild steel plated clamp (401-0050-35) MoD Version.



Item	Part No.	Length	Cable Type	Standard Clamp
Spring Rewind Bonding Reel	DDA12221-1	36m	Copper Braided, Clear PVC Covered	Small Brass
Spring Rewind Bonding Reel	DDA12221-2	30m	Copper Braided, Clear PVC Covered	Small Brass
Spring Rewind Bonding Reel	DDA12221-3	25m	Copper Braided, Clear PVC Covered	Small Brass
Spring Rewind Bonding Reel	DDA12221-4	36m	Low Temperature Cable	Small Brass
Spring Rewind Bonding Reel	DDA12221-5	30m	Low Temperature Cable	Small Brass
Spring Rewind Bonding Reel	DDA12221-6	25m	Low Temperature Cable	Small Brass
Spring Rewind Bonding Reel	DDA12221-7	25m	Low Temperature Cable	Small Brass
Spring Rewind Bonding Reel	DDA12221-8	40m	Copper Braided, Clear PVC Covered	Small Brass
Spring Rewind Bonding Reel	DDA12221-9	15m	Copper Braided, Clear PVC Covered	Small Brass
Spring Rewind Bonding Reel	DDA12221-10	15m	High Visibility Cable	Small Brass
Spring Rewind Bonding Reel	DDA12221-11	25m	High Visibility Cable	Small Brass
Spring Rewind Bonding Reel	DDA12221-12	30m	High Visibility Cable	Small Brass
Spring Rewind Bonding Reel	DDA12221-13	36m	High Visibility Cable	Small Brass
Spring Rewind Bonding Reel	DDA12221-14	40m	High Visibility Cable	Small Brass
NATO Stock No. Version 7MTE/4930-99-1260548	DDA12220	36m	Copper Braided, Clear PVC Covered	Mild Steel Plated Clip

Dimensions.

A	B	C	D	E	F	G	H	J	K	L	M	N
170	292	Ø250	Ø130	160	65	167	6	140	90	10	30	40

Shipping weight (with 36m cable and clamp) = 10 kg. Dimensions in mm. Special packing for Spring Rewing Reels SK2876 28 X 18 X 35CMS 0.2kg

Maintenance

Warning: The internal spring of this unit is extremely strong and requires special tooling to dismantle and reassemble. DO NOT ATTEMPT TO RECTIFY ANY FAULTS, other than replacing the cable or retensioning the drum, return the unit to Fluid Transfer International Limited for repair. Any attempt to rectify in the field could result in injury.

FTI's policy of continuous improvement means we reserve the right to alter designs and specifications without notice.

The descriptions, illustrations and product references in the datasheet are for information purposes only and are not binding. (Updated December 09)



Applications

Provides electrical bonding between refuelling equipment, aircraft and bulking sites.

Features

Robust maintenance-free construction;

- Stainless steel housing spring and centre pin.
- Oilite bushings.
- Aluminium alloy spring housing.
- Zinc plated mild steel drum, cheek plate and mounting bracket
- Damped rewind system prevents over-speed.
- Ratchet / pawl contains spring tension during deployment.
- Cable guide and rubber bump stop to reduce damage to cable.
- Requires no lubrication.
- Maximum resistance 0.50 ohms.

Options

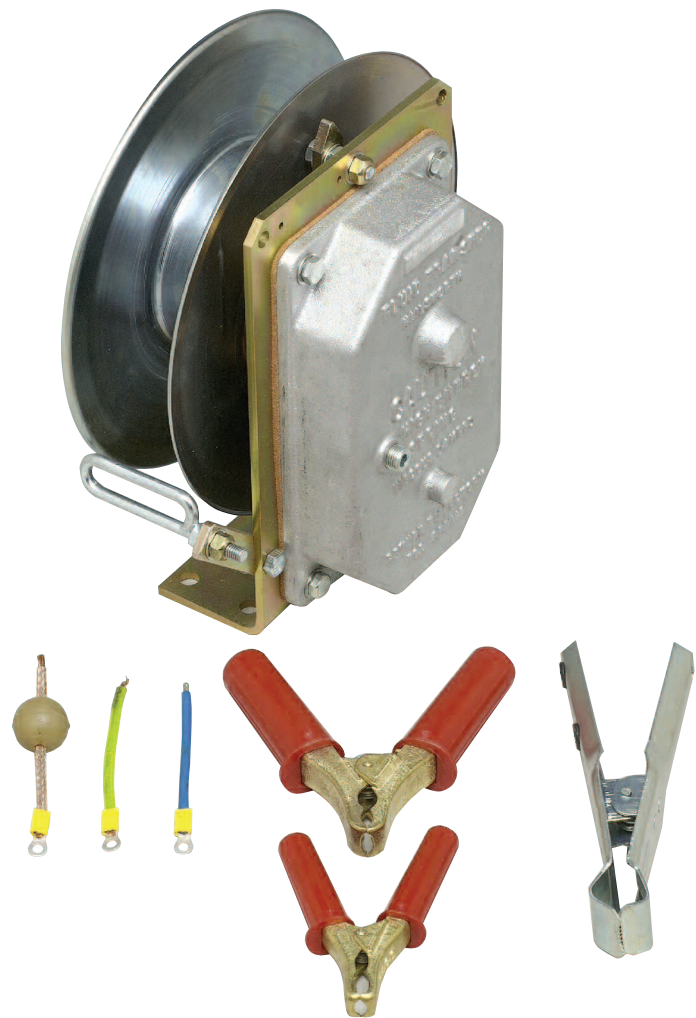
Standard unit comes complete with 36m copper braided, clear PVC covered cable with small brass clamp.

Cable Options

- Low temperature (-19°C to -40°C).
- High visibility cable with increased luminosity.

Clip Options

- Large brass clamp
- Plated clip



Specification

The Fluid Transfer Spring Rewind Bonding Reel provides electrical bonding between refuelling equipment, aircraft and fuel depot sites. An internally protected electrical contact is provided which ensures good reliable continuity between the mounting bracket and bonding cable, with a resistance value better than 0.5 Ohms.

A ratchet and pawl mechanism is used to restrain the automatic rewind system while the bonding cable is deployed. The ratchet and pawl mechanism requires no lubrication. Pulling and releasing the cable following deployment activates automatic rewind. The reel will then rewind at a controlled rate due to the glycerine viscous damping mechanism. Rewind spring life is also promoted by the viscous rewind damping mechanism. Positive locking of the reel is not required as the spring rewind retains the cable in the retracted position. A cable guide acts both to guide the cable into the reel and as a positive stop against a rubber ball fitted to the bonding cable.