



# Product specification

## Torque Wrenches

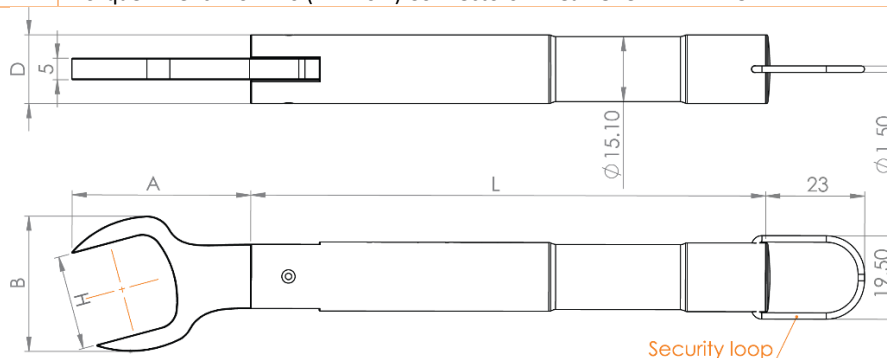
Hughes break-over torque wrenches are designed to minimise impairment to connections by ensuring accurate mating forces are delivered to transition points when mating RF coaxial connectors.

The unique break-over feature triggers free movement through a 10 degree non-torquing arc, at the axis of the tool movement to indicate to that desired torque has been reached and assure users of a first class connection free of over torque damage.

Hughes break-over wrenches are constructed from tough high quality elevated strength durable phosphate coated chromium molybdenum steel, light weight chromium molybdenum steel wrench heads and from a blue anodized aluminium handle incorporating a stainless steel security loop which may be attached to the users belt or security tether.



Hughes Part Number	Description
26-RF4E21	Torque Wrench for 7/16 DIN Connectors - Break Over 32mm 25Nm
26-RF4F21	Torque Wrench for 4.3-10 Connectors - Break Over 22mm 5Nm
26-RF4D21	Torque Wrench for N-type Connectors - Break Over 19mm 5Nm
26-RF4T21	Torque Wrench for 2.2-5 Connectors - Break Over 16mm 3Nm
26-RF4G21	Torque Wrench for SMA Connectors - Break Over 8mm 0.9Nm
26-RF4H21	Torque Wrench for X10 (NEX10™) Connectors - Break Over 11mm 1.5Nm



## Specification

	7/16	4.3/10	N-type	2.2-5	SMA	X10 (NEX10™)
Design Type	Break-Over					
Break-Over Angle	10 Deg					
Hex Size [H]	32mm	22mm	19mm	16mm	8mm	11mm
Handle Length [L]	160mm	120mm				
Head size [A x B]	57.5mm x 47.5mm	44.5mm x 31mm	45mm x 31mm	34mm x 24mm	34.5mm x 17mm	36mm x 21mm
Handle Diameter [D]	16mm					
Torque Type	Fixed (Pre-Set Torque)					
Torque Accuracy	Manufactured to meet or exceed the accuracy and repeatability requirements of ISO 6789 (±4% of setting) Typical accuracy 1 - 2%					
Torque Setting	25Nm (221.27in-lbs)	5Nm (44.25in-lbs)	5Nm (44.25in-lbs)	3Nm (26.55in-lbs)	0.9Nm (7.97in-lbs)	1.5Nm (13.28in-lbs)
Weight	155g	102g	103g	100g	100g	100g
ISO Standard	ISO6789					
Materials						
Open Wrench Head	42CrMo4 – Low alloy chromium molybdenum steel					
Surface treatment	Phosphate coating					
Wrench Handle	Aluminium alloy					
Surface treatment	Aluminium oxide					
Colour	Blue					

NOTE: Specifications are subject to change without notice.

NEX10™ is a trademark of Huber + Suhner, Radiall, Rosenberger

**Hughes Electronics Ltd**  
Unit G, Southwark Business Center,  
Ayres Street, London, SE1 1ES, UK  
Co. No. 2827242 VAT No. 653 5771 17

Tel: (44) 020 7378 1400  
Fax: (44) 020 7378 1434  
email: sales@hugheselectronics.co.uk  
web: www.hugheselectronics.co.uk



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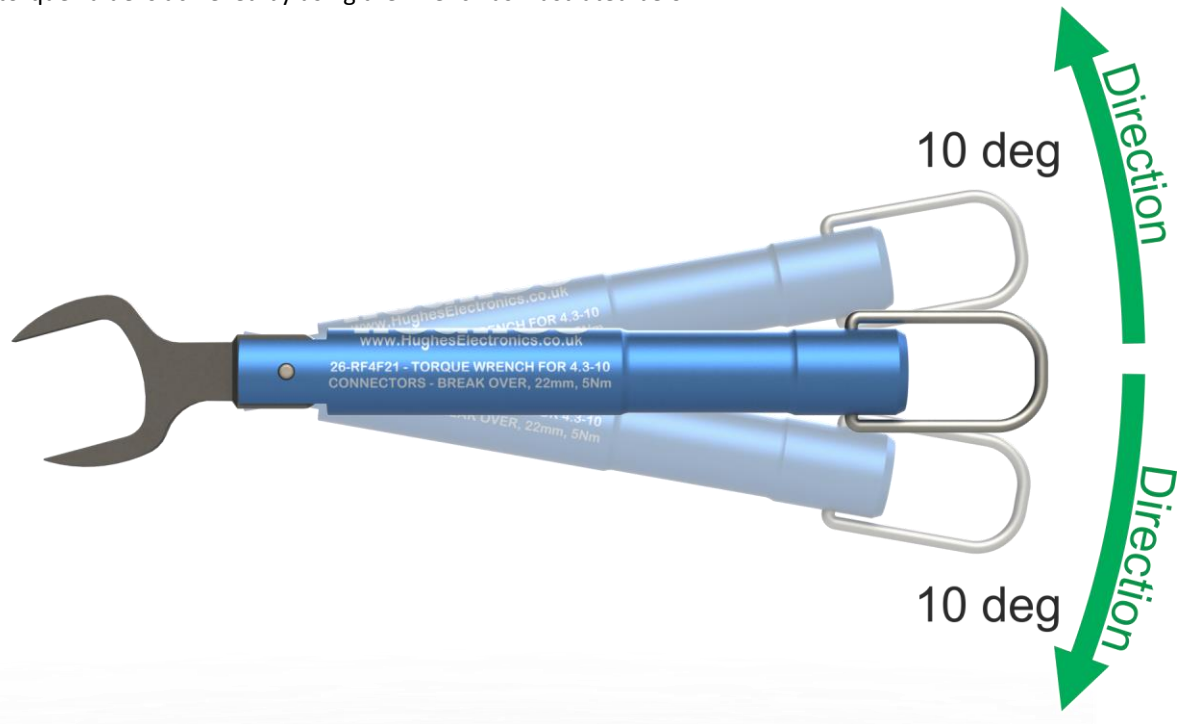


# Product specification

## Torque Wrenches

### Instructions for use

The pre-set torque value is achieved by using the wrench as illustrated below:



1. Fit the wrench around the connector hex nut and apply force on the torque wrench using a smooth, steady action.  
**Caution:** Do not apply force by holding any other part of the wrench other than the handle and do not use any other lever aid on the wrench.
2. When the set torque is reached, the torque wrench will move through a small arc about the pivot pin and “break”. Force on the handle should now be released.  
**Note:** if the connector is over torqued, loosen it and then repeat the operation.
3. If the wrench has not been used recently, actuate it by breaking the wrench head back and forth several times before use. This spreads lubricant throughout the internal mechanism to improve performance.
4. The torque wrench is verified at the factory and cannot be calibrated by the user.

