

## GENERAL INFORMATION

### D-CLIP

Wire Component

#### PRODUCT DESCRIPTION

The D-Clip Wire Component is a one piece clip that is used to fasten TOUGHWIRE™ to the mounting surface. Can be mounted on flat or sloped surfaces. TOUGHWIRE™ Loop End Wire Assembly products (sold separately) are looped through the D-Clip, then anchored to the structure with a variety of DEWALT® Anchors and Fasteners (sold separately).

#### GENERAL APPLICATIONS AND USES

- HVAC duct
- Electrical and mechanical systems
- Luminaires and lighting systems
- Plumbing & piping supports
- Signage and displays
- Office partitions and panels

#### FEATURE AND BENEFITS

- + Multiple Sizes - Available in 5/16 in. hole size and 1/2 in. hole size to pair with DEWALT® Anchors And Fasteners (sold separately).
- + Versatile Hanging - Can be mounted on flat or sloped surfaces.
- + ToughWire™ Compatible - Can be used with all three ToughWire™ wire diameters (DW1, DW2, and DW3, sold separately).

#### APPROVALS AND LISTINGS

- International Code Council, Evaluation Service (ICC-ES), PMG-1786, Hangers for Pipe, Duct and Conduit Support
- Code compliant with the 2024, 2021, 2018 and 2015 IMC, IPC, IRC, UMC and UPC
- Tested in accordance with ICC-ES LC1041 for supports and hangers for pipe, ducts and conduit
- Tested and verified to be an acceptable alternative to the duct hanger systems prescribed in the SMACNA HVAC Duct Construction Standards (HVAC-DCS), 4th Edition, Chapter 5, Tables 5-1, 5-1M and 5-2

#### GUIDE SPECIFICATIONS

3 05 29 - Hangers and Supports for HVAC Piping and Equipment and 22 05 29 - Hangers and Supports for Plumbing Piping and Equipment. Hangers shall be TOUGHWIRE™ system as supplied by DEWALT, Towson, MD. Hangers shall be installed in accordance with published instructions and the Authority Having Jurisdiction.

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D-CLIP

#### DEVICE MATERIAL

- Zinc Plated Carbon Steel

#### SIZE RANGE

- 5/16" Hole
- 1/2" Hole

#### SUITABLE MATERIAL PAIRING

- TOUGHWIRE™ Loop End Wire Assembly

**CODE LISTED**  
ICC-ES PMG-1786

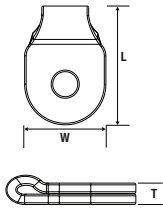
MATERIAL SPECIFICATIONS

Hanger/Device Component	Component Material
D-Clip	Carbon Steel
Zinc Plating	ASTM B633 (Fe/Zn5) Min. plating requirements for mild service condition

INSTALLATION SPECIFICATIONS

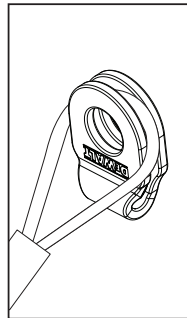
Description	Clearance Hole Size	Suggested DEWALT® Anchor(s)
D-Clip for 1/4" Anchor/Fastener	5/16"	1/4" Screw-Bolt+
D-Clip for 3/8" Anchor/Fastener	1/2"	3/8" Screw-Bolt+

All three wire rope sizes DW1, DW2 and DW3 can be considered for use with both D-Clip parts.



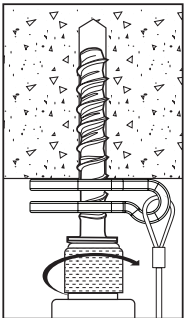
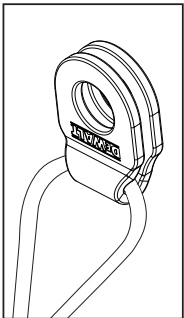
L = 1.5", W = 1" , T = 1/4"

INSTALLATION INSTRUCTIONS



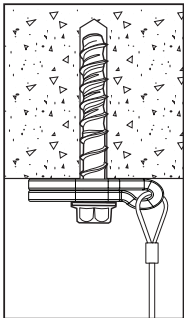
Step 1

Pass the Loop End Wire Attachment through the opening of the D-Clip.  
Note: A loop created with a TOUGHLOCK™ device may also be used.



Step 2



Select and install an appropriate sized anchor through the D-Clip into the base material to the required minimum embedment.



Note: The two sides of the D-Clip should be compressed together when the anchor is fully installed.  
Note: Refer to specific Anchor Installation Instructions

Note: Must follow safety instructions for tools.

**PERFORMANCE DATA**
**Allowable Load Capacities for TOUGHWIRE™ D-Clip Assemblies in Normal-Weight Concrete**<sup>1,2,3,4,5,6,7,8</sup>

Anchor Description	Nominal Anchor Diameter (in.)	Minimum Embedment Depth in. (mm)	TOUGHWIRE™ Size	Minimum Concrete Compressive Strength = 3,000 psi	
				lbs. (kN)	
				Mounting Orientation	
					
D-Clip with 5/16" Clearance Hole (Cat. No. DTWDCLIP025)					
Screw-Bolt+™ Hex Washer Head	1/4"	1 (25)	DW1	40 (0.2)	40 (0.2)
			DW2	125 (0.6)	125 (0.6)
			DW3	300 (1.3)	300 (1.3)
Spike® Mushroom Head	1/4"	1 (25)	DW1	40 (0.2)	40 (0.2)
			DW2	125 (0.6)	125 (0.6)
			DW3	195 (0.9)	300 (1.3)
		1-1/4 (31)	DW3	275 (1.2)	300 (1.3)
Power-Stud®+ SD1	1/4"	1-1/8 (28)	DW1	40 (0.2)	40 (0.2)
			DW2	125 (0.6)	125 (0.6)
			DW3	300 (1.3)	300 (1.3)
UltraCon® Hex Washer Head / TrimFit Hex Head	5/16"	1 (25)	DW1	40 (0.2)	40 (0.2)
			DW2	125 (0.6)	125 (0.6)
			DW3	185 (0.8)	300 (1.3)
		1-3/4 (45)	DW3	300 (1.3)	300 (1.3)
D-Clip with 1/2" Clearance Hole (Cat. No. DTWDCLIP044)					
Screw-Bolt+™ Hex Washer Head	3/8"	1-1/2 (38)	DW1	40 (0.2)	40 (0.2)
			DW2	125 (0.6)	125 (0.6)
			DW3	300 (1.3)	300 (1.3)
Spike® Mushroom Head	3/8"	1-3/4 (45)	DW1	40 (0.2)	40 (0.2)
			DW2	125 (0.6)	125 (0.6)
			DW3	300 (1.3)	300 (1.3)
Power-Stud®+ SD1	3/8"	1-5/8 (41)	DW1	40 (0.2)	40 (0.2)
			DW2	125 (0.6)	125 (0.6)
			DW3	300 (1.3)	300 (1.3)

1. Tabulated load values are for anchors installed in uncracked concrete. Concrete compressive strength must be at the minimum at the time of installation.

2. In unshaded cells, the capacity of the wire rope controls the failure in the assembly.

3. In shaded cells, the capacity of anchor in concrete controls the failure in the assembly.

4. Allowable capacities are based on a safety factor of 4.0.

5. The minimum base material thickness should 3-1/2 inches.

6. Tabulated data is based on a minimum spacing distance of 2-3/4 inches for 1/4" and 5/16" diameter anchors and a minimum spacing distance of 4 inches for 3/8" diameter anchors.

7. Tabulated data is based on a minimum edge distance of 3-1/2 inches.

8. Nominal anchor length must exceed the minimum embedment depth + 1/4 inch.

1. Tabulated load values are for anchors installed in uncracked concrete. Concrete compressive strength must be at the minimum at the time of installation.
2. In unshaded cells, the capacity of the wire rope controls the failure in the assembly.
3. In shaded cells, the capacity of anchor in concrete controls the failure in the assembly.
4. Allowable capacities are based on a safety factor of 4.0.
5. The minimum base material thickness should be 3-1/2 inches.
6. Tabulated data is based on a minimum spacing distance of 2-3/4 inches for 1/4" and 5/16" diameter anchors and a minimum spacing distance of 4 inches for 3/8" diameter anchors.
7. Tabulated data is based on a minimum edge distance of 3-1/2 inches.
8. Nominal anchor length must exceed the minimum embedment depth + 1/4 inch.

## CONDITIONS OF USE



Do not use in corrosive environments, e.g., chlorinated environments.



For use in dry, interior locations only.



ALWAYS wear safety glasses when working with TOUGHWIRE™.



ALWAYS wear safety gloves when working with TOUGHWIRE™.

## ORDERING INFORMATION

### D-Clip

Cat. No.	Description	Clearance Hole Diameter (in.)	Pack Qty.	Carton Qty.
DTWDCLIP025	D-Clip for 1/4" Anchor/Fastener	5/16"	50	300
DTWDCLIP044	D-Clip for 3/8" Anchor/Fastener	1/2"	50	300



### TOUGHWIRE™ Loop End

Cat. No.	TOUGHWIRE™ Size	TOUGHWIRE™ Cable Length (ft)	Pack Qty.	Carton Qty.
DTW0106LE	DW1	6	75	300
DTW0112LE	DW1	12	50	200
DTW0120LE	DW1	20	25	100
DTW0206LE	DW2	6	25	100
DTW0212LE	DW2	12	25	100
DTW0220LE	DW2	20	25	100
DTW0235LE	DW2	35	25	100
DTW0306LE	DW3	6	25	100
DTW0312LE	DW3	12	25	100
DTW0320LE	DW3	20	10	40
DTW0335LE	DW3	35	15	30



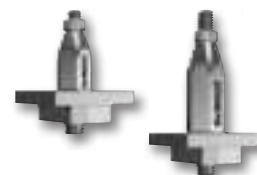
### TOUGHLOCK™ Wire Locking Device

Cat. No.	TOUGHWIRE™ Size	Pack Qty.	Carton Qty.
DTWTOUGHLOCK01	DW1	100	1000
DTWTOUGHLOCK02	DW2	50	500
DTWTOUGHLOCK03	DW3	25	150



### STRUTLOCK™ Wire Locking Devices

Cat. No.	TOUGHWIRE™ Size	Pack Qty.	Carton Qty.
DTWSTRUTLOCK02	DW2	15	90
DTWSTRUTLOCK03	DW3	10	60



### SQUARELOCK™ Wire Locking Device

Cat. No.	TOUGHWIRE™ Size	Pack Qty.	Carton Qty.
<b>SQUARELOCK™ Device Without EPDM Gasket</b>			
DTWSQLOCK02	DW2	50	300
DTWSQLOCK03	DW3	20	120
<b>SQUARELOCK™ Device With EPDM Gasket</b>			
DTWSQLOCKP02	DW2	50	300
DTWSQLOCKP03	DW3	20	120



### TOUGHWIRE™ Cable Cutter

Cat. No.	Description	Pack Qty.	Carton Qty.
DTWHANDCUTTER	Cutters for DW1, DW2 and DW3 TOUGHWIRE™ Cable	1	10

