

# X-DFB/X-EMTC DATA SHEET

**Electrical conduit fastener** 



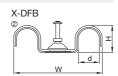


# X-DFB, X-EMTC Electrical conduit fastener

#### **Product data**

#### **Dimensions**



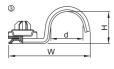


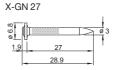
# Material specifications



• See fastener program in the next pages.

## X-BX/X-EMTC



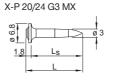


Recommended fastening tools DX 6 MX, DX 5 MX, DX 460 MX, DX 351 MX, DX 6 F8, DX 5 F8, DX 460 F8, DX 351 F8, BX 3 ME, GX 120 ME, GX 3 ME

#### X-GHP 20/24





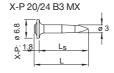




X-EGN 14

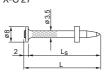


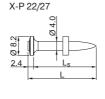






X-C 27



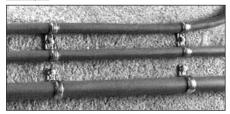


X-C 27 G3 MX



#### **Applications**

#### Example





#### Performance data

Recommended loads under shear and tension

Designation	Concrete	Sandlime	Steel
		stone	
	N <sub>rec</sub>	N <sub>rec</sub>	N <sub>rec</sub>
X-DFB (pre-mounted)	0.06 kN	0.06 kN	_
X-EMTC MX with X-U, X-P or X-C			
$(L_s = 22-27 \text{ mm})$	0.06 kN	0.06 kN	_
X-EMTC MX with X-U 16 MX	_	_	0.06 kN
X-EMTC MX with X-P B3 MX, X-P G3 MX			
or X-GHP ( $L_s = 20-24 \text{ mm}$ )	0.02 kN	_	_
X-EMTC MX with X-C 27 G3 MX			
or X-GN 27 MX	_	0.06 kN	_
X-EMTC MX with X-S 14 B3 MX,			
X-S 14 G3 MX, X-EGN 14 MX or X-U 16 MX	_	_	0.06 kN



• For more details in relation to base material properties, please refer to the chapter **Fastener selection guide** in the Direct Fastening Manual (DFTM).

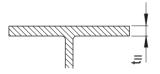
#### **Application recommendation**

Base material thickness

Concrete	
X-U, X-P or X-C	h <sub>min</sub> = 80 mm
X-P B3 MX, X-P G3 MX,	h <sub>min</sub> = 60 mm
X-GHP, X-C 27 G3 MX,	
X-GN 27 MX	



t<sub>II</sub> ≥ 4 mm



#### Fastened material thickness

X-BX, X-EMTC

To fasten conduits, pipes and tubes of Ø 5 mm to 50 mm

#### Fastener positioning

Space fastenings as needed to control sag and maintain alignment.

#### **Corrosion information**



- These zinc-coated fasteners are not suitable for long-term service outdoors or in otherwise corrosive environments.
- For more details, please refer to following technical document: Hilti Corrosion Handbook.



#### System recommendation



• For more details, please refer to the chapter **Accessories and consumables compatibility** in the Direct Fastening Technology Manual (DFTM).

Cartridge recommendation for fastening to concrete			
Base material	Cartridge color (tool power level)		
	Tool type:	Tool type:	
	DX 6 MX	DX 5 MX, DX 460 MX,	
		DX 351 MX	
	DX 6 F8	DX 5 F8, DX 460 F8,	
		DX 351 F8, DX 2	
	Cartridge type: 6.8/11 M	Cartridge type: 6.8/11 M	
Soft/medium concrete	titanium ■ (2-5)	yellow □, red ■	
Tough concrete	titanium ■ (4-7)	yellow <mark>-</mark> , red ■	

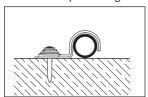
#### Cartridge recommendation for fastening to steel Base material Cartridge color (tool power level) Tool type: Tool type: DX 6 MX DX 5 MX, DX 460 MX, DX 351 MX DX 6 F8 DX 5 F8, DX 460 F8, DX 351 F8, DX 2 Cartridge type: 6.8/11 M Cartridge type: 6.8/11 M S235, S275, $4 \le t_{II} \le 20 \, \text{mm}$ titanium **(2-8)** yellow \_, red ■ S355



- Tool power level adjustment by setting tests on site.
- Start tool energy selection with lowest recommended tool power level.
- · Correct according requirement from chapter quality assurance.

#### **Quality assurance**

#### Nailhead not protruding





# Fastener program

#### Technical information

AACH	NACH I			
With pre-mounted nail	Without pre-mounted nail			
Designation	Designation	d	W	Н
① X-EMTC 3/8"-C27/-U22	③ X-EMTC 3/8" MX	10 mm (3/8")	33 mm	12 mm
① X-EMTC 3/8"-C27/-U22		13 mm (1/2")		
	③ X-EMTC 1/2" MX	13 mm (1/2")	42 mm	15 mm
① X-EMTC 3/4"-C27/-U22	③ X-EMTC 3/4" MX	19 mm (3/4")	47 mm	21 mm
	③ X-EMTC 1" MX	25 mm (1")	53 mm	27 mm
① X-EMTC 1"-C27/-U22		25 mm (1")		
	③ X-DFB 5 MX	5 mm	47 mm	7 mm
	③ X-DFB 6 MX	6 mm	50 mm	8 mm
	③ X-DFB 7 MX	7 mm	52 mm	9 mm
② X-DFB 8-C27	③ X-DFB 8 MX	8 mm		9.5 mm
	③ X-DFB 9 MX	9 mm	55.5 mm	11 mm
	③ X-DFB 10 MX	10 mm	57.5 mm	11.5 mm
② X-DFB 11-C27	③ X-DFB 11 MX	11 mm		12.5 mm
	③ X-DFB 13 MX	13 mm	64.2 mm	14.5 mm
② X-DFB 16-C27	③ X-DFB 16 MX	16 mm	66 mm	15 mm
② X-DFB 18-C27		18 mm	70 mm	18 mm
② X-DFB 20-C27	③ X-DFB 20 MX	20 mm	75 mm	20 mm
② X-DFB 22-C27	③ X-DFB 22 MX	22 mm	79 mm	22 mm
② X-DFB 24-C27	③ X-DFB 25 MX	24 mm	83 mm	24 mm
② X-DFB 25-C27		25 mm		
② X-DFB 28-C27	③ X-DFB 28 MX	28 mm	91 mm	28 mm
② X-DFB 35-C27		35 mm	106 mm	30 mm
② X-DFB 40-C27		40 mm	116 mm	37 mm

#### Material specification

- 1 + 2 Galvanized steel sheet, f<sub>u</sub> = 270-420 N/mm<sup>2</sup>, 10-20 µm zinc coating
- ③ Galvanized steel sheet, f<sub>u</sub> = 270-420 N/mm<sup>2</sup>, ≥ 5 μm zinc coating

#### Tools

DX 6 F8, DX 5 F8, DX 460 F8, DX 351 F8 for all X-DFB/EMTC with pre-mounted nails

and

DX 6 MX, DX 5 MX, DX 460 MX, DX 351 MX, GX 120 ME, GX 3 ME, BX 3 ME for X-DFB/EMTC  $\_$ MX



### Item no. and description

Designation	Item no.	Description	
X-EMTC 3/8"-C27/-U22			
X-EMTC 3/8"-C27/-U22			
X-EMTC 3/4"-C27/-U22			
X-EMTC 1"-C27/-U22			
X-DFB 8-C27			
X-DFB 11-C27			
X-DFB 16-C27			
X-DFB 18-C27		With pre-mounted nail	
X-DFB 20-C27			
X-DFB 22-C27			
X-DFB 24-C27			
X-DFB 25-C27			
X-DFB 28-C27			
X-DFB 35-C27			
X-DFB 40-C27			
X-EMTC 3/8" MX			
X-EMTC 1/2" MX			
X-EMTC 3/4" MX			
X-EMTC 1" MX			
X-DFB 5 MX			
X-DFB 6 MX			
X-DFB 7 MX			
X-DFB 8 MX			
X-DFB 9 MX	2331463	Without pre-mounted nail	
X-DFB 10 MX	2331464		
X-DFB 11 MX			
X-DFB 13 MX	2331465		
X-DFB 16 MX			
X-DFB 20 MX			
X-DFB 22 MX			
X-DFB 25 MX			
X-DFB 28 MX			