Wiring Accessories

Single Insulated Wire Ferrules

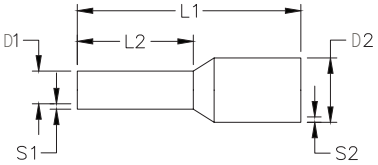
These tin-plated copper single insulated ferrules are designed to accommodate conductors with cross-sections ranging from 20 AWG to 1 AWG (0.5 to 50 mm²). Tolerances according to DIN 46228 part 4.

- Heat resistant from -5 to +105 °C [23 to +221 °F]
- CE / RoHs 2011/65/EU
- cULus E491449
- CSA-US 1176867
- Insulating Collar: Polypropylene-fluoropolymer
- Tube: Copper (Cu-DHP)
- Tin Plating: Galvanically tin-plated, bright finish



Available Colors

Orange	White
Blue	Ivory
Black	Green
Gray	Brown
Yellow	Beige
Red	Olive



Single Insulated Wire Ferrules

Part Number				Cross Section		Dimensions [mm]						Qty
Standard	Price	DIN	Price	AWG	mm²	L1	L2	D1	D2	S1	S2	
V30AE000006	$10.50	V30AE000038	$10.50	20	0.5	14	8	1	2.6	0.15	0.25	500
V30AE000009	$10.50	V30AE000041	$10.50	18	0.75	14	8	1.2	2.8	0.15	0.25	500
V30AE000013	$10.50	V30AE000045	$10.50	18	1.0	14	8	1.4	3.0	0.15	0.25	500
V30AE000016	$10.50	V30AE000048	$10.50	16	1.5	14	8	1.7	3.5	0.15	0.25	500
V30AE000017	$16.50	V30AE000049	$16.50	16	1.5	16	10	1.7	3.5	0.15	0.25	500
V30AE000052	$13.00	V30AE000052	$13.00	14	2.5	15	8	2.2	4.2	0.15	0.25	500
V30AE000053	$20.50	V30AE000053	$20.50	14	2.5	19	12	2.2	4.2	015	0.25	500
V30AE000055	$19.00	V30AE000055	$19.00	12	4	18	10	2.8	4.8	0.2	0.3	500
V30AE000056	$23.50	V30AE000056	$23.50	12	4	20	12	2.8	4.8	0.2	0.3	500
V30AE000025	$5.25	V30AE000058	$5.25	10	6	20	12	3.5	6.3	0.2	0.3	100
V30AE000026	$6.50	V30AE000059	$6.50	10	6	26	18	3.5	6.3	0.2	0.3	100
V30AE000027	$6.50	V30AE000060	$6.50	8	10	22	12	4.5	7.6	0.2	0.4	100
V30AE000028	$7.50	V30AE000061	$7.50	8	10	28	18	4.5	7.6	0.2	0.4	100
V30AE000029	$7.50	V30AE000062	$7.50	6	16	22	12	5.8	8.8	0.2	0.4	100
V30AE000030	$12.00	V30AE000063	$12.00	6	16	28	18	5.8	8.8	0.2	0.4	100
V30AE000031	$9.00	V30AE000064	$9.00	4	25	30	16	7.3	11.2	0.2	0.4	50
V30AE000033*	$12.00	V30AE000067	$12.00	2	35	30	16	8.3	12.7	0.2	0.4	50
V30AE000035	$16.50	V30AE000070	$16.50	1/0	50	36	20	10.3	15	0.3	0.5	50

*Not UL Certified

Twin Insulated Wire Ferrules

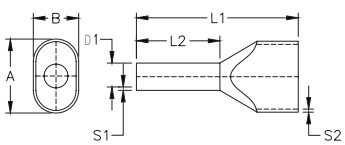
These tin-plated copper twin insulated ferrules are designed to accommodate conductors with cross-sections ranging from 20 AWG to 6 AWG (0.5 to 16 mm²). Tolerances according to DIN 46228 part 4.

- Heat resistant from -5 to +105 °C [23 to +221 °F]
- CE / RoHs 2011/65/EU
- cULus E491449
- CSA-US 1176867
- Insulating Collar: Polypropylene-fluoropolymer
- Tube: Copper (Cu-DHP)
- Tin Plating: Galvanically tin-plated, bright finish



Available Colors

Orange	Green	Gray
Blue	Ivory	Yellow
Black	Red	White



Twin Insulated Wire Ferrules

Part Number				Cross Section		Dimensions [mm]							Qty
Standard	Price	DIN	Price	AWG	mm²	L1	L2	D1	S1	S2	A	B	
V30AE001134	$28.50	V30AE001145	$28.50	2 x 20	2 x 0.5	14	8	1.4	0.15	0.3	5	3	500
V30AE000606	$29.00	V30AE000607	$29.00	2 x 18	2 x 0.75	14	8	1.7	0.15	0.3	5.5	3	500
V30AE000733	$34.50	V30AE000734	$34.50	2 x 18	2 x 0.75	16	10	1.7	0.15	0.3	5.5	3	500
V30AE000608	$29.00	V30AE000609	$29.00	2 x 18	2 x 1	15	8	2	0.15	0.3	5.8	3.2	500
V30AE000735	$34.50	V30AE000736	$34.50	2 x 18	2 x 1	19	12	2	0.15	0.3	5.8	3.2	500
V30AE000623	$29.00	V30AE000625	$29.00	2 x 16	2 x 1.5	16	8	2.2	0.15	0.3	6.5	3.6	500
V30AE000737	$34.50	V30AE000738	$34.50	2 x 16	2 x 1.5	20	12	2.2	0.15	0.3	6.5	3.6	500
V30AE000611	$31.50	V30AE000611	$31.50	2 x 14	2 x 2.5	19	10	2.8	0.15	0.4	8	4.5	500
V30AE000748	$6.50	V30AE000748	$6.50	2 x 14	2 x 2.5	21	12	2.8	0.15	0.4	8	4.5	100
V30AE001148	$16.00	V30AE001148	$16.00	2 x 12	2 x 4	22	12	3.5	0.2	0.5	9	5.2	100
V30AE001139	$18.00	V30AE001150	$18.00	2 x 10	2 x 6	23	12	4.5	0.2	0.5	11.4	6.2	100
V30AE001141	$25.50	V30AE001152	$25.50	2 x 8	2 x 10	24	12	5.8	0.2	0.5	13.4	7.6	100
V30AE001143	$15.00	V30AE001154	$14.50	2 x 6	2 x 16	29	16	8.3	0.3	0.6	17.2	9.5	50

Wiring Accessories

Crimp Terminals

Partially insulated crimp terminals are constructed from high quality tin-plated copper and PVC. Heat resistant from -4 °F [-20 °C] up to +167 °F [+75 °C]. Flammability classification UL 94-V0.

RoHS 2011/65/EU

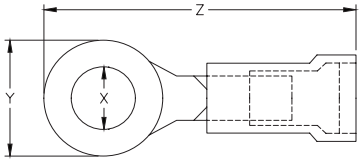
- Insulation: polyvinyl chloride
- Sleeve material: copper

Ring Terminals



Partially Insulated PVC Ring Terminals

Part Number	Cross Section		Dimension [mm]			Qty	Price
	AWG	mm²	X	Y	Z		
V70RK004004	20 - 18	0.5 - 1	4.0	8.0	22.2	100	$17.50
V70RK004005	20 - 18	0.5 - 1	5.0	8.0	22.2	100	$17.50
V70RK004011	16 - 14	1.5 - 2.5	4.0	8.6	23.0	100	$18.50
V70RK004012	16 - 14	1.5 - 2.5	5.0	8.6	23.0	100	$21.00
V70RK004017	12 - 10	4 - 6	4.0	9.5	26.9	100	$35.50
V70RK004018	12 - 10	4 - 6	5.0	9.5	26.9	100	$35.50

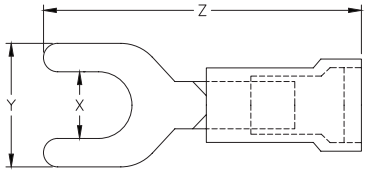


Fork Terminals



Partially Insulated PVC Fork Terminals

Part Number	Cross Section		Dimension [mm]			Qty	Price
	AWG	mm²	X	Y	Z		
V70GK004003	20 - 18	0.5 - 1	4.0	7.3	22.3	100	$17.50
V70GK004004	20 - 18	0.5 - 1	5.0	8.0	21.7	100	$18.50
V70GK004008	16 - 14	1.5 - 2.5	4.0	7.3	22.3	100	$17.50
V70GK004009	16 - 14	1.5 - 2.5	5.0	8.1	22.3	100	$21.00
V70GK004011	12 - 10	4 - 6	4.0	9.1	25.8	100	$30.50
V70GK004012	12 - 10	4 - 6	5.0	9.1	25.8	100	$29.50

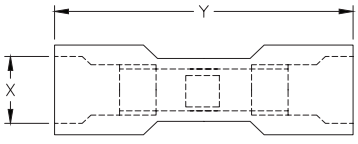


Butt Connectors



Fully Insulated PVC Butt Connectors

Part Number	Cross Section		Dimension [mm]		Qty	Price
	AWG	mm²	X	Y		
V70SV004001	20 - 18	0.5 - 1	5.4	26.0	100	$20.00
V70SV004002	16 - 14	1.5 - 2.5	6.1	26.0	100	$24.00
V70SV004003	12 - 10	4 - 6	8.0	26.0	100	$37.50

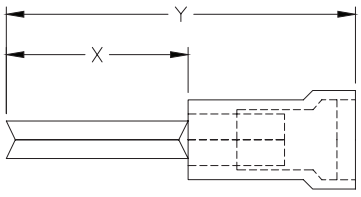


Pin Terminals



Partially Insulated PVC Pin Terminals

Part Number	Cross Section		Dimension [mm]		Qty	Price
	AWG	mm²	X	Y		
V70SS004001	20 - 18	0.5 - 1	12.0	23.3	100	$20.00
V70SS004002	16 - 14	1.5 - 2.5	12.0	23.4	100	$21.50
V70SS004003	12 - 10	4 - 6	14.0	28.2	100	$39.00



Note: Dimensions are approximate. Please visit our website www.AutomationDirect.com for complete engineering drawings.

Wiring Accessories

Disconnect Terminals

Disconnect terminals are constructed from copper-enhanced PVC and brass. Heat resistant from -4 °F [-20 °C] up to +167 °F [+75 °C]. Flammability classification UL 94-V0.

RoHS 2011/65/EU

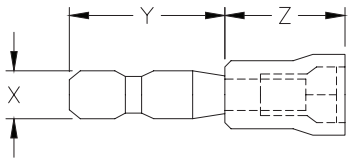
- Insulation: polyvinyl chloride strengthened with copper
- Sleeve material: brass

Male Bullet Disconnect Terminals



Partially Insulated Male Bullet Disconnect Terminals

Part Number	Cross Section		Dimension [mm]			Qty	Price
	AWG	mm²	X	Y	Z		
V70RS004001	20–18	0.5–1	4.0	11.3	9.8	100	$20.00
V70RS004002	16–14	1.5–2.5	5.0	11.8	11.7	100	$22.00
V70RS004003	12–10	4–6	5.0	11.0	10.2	100	$32.00

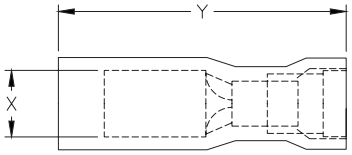


Female Bullet Disconnect Terminals



Fully Insulated Female Bullet Disconnect Terminals

Part Number	Cross Section		Dimension [mm]		Qty	Price
	AWG	mm²	X	Y		
V70RV004001	20–18	0.5–1	4.0	23.9	100	$26.00
V70RV004002	16–14	1.5–2.5	5.0	23.9	100	$23.00
V70RV004003	12–10	4–6	5.0	27.8	100	$38.50

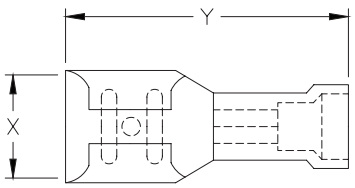


Partially Insulated PVC Female Disconnect Terminals



Partially Insulated Female Disconnect Terminals

Part Number	Cross Section		Dimension [mm]		Qty	Price
	AWG	mm²	X	Y		
V70FH004001	20–18	0.5–1	2.8 x 0.5	19.5	100	$18.00
V70FH004002	20–18	0.5–1	2.8 x 0.8	18.8	100	$18.00
V70FH004003	20–18	0.5–1	4.8 x 0.5	19.5	100	$17.50
V70FH004004	20–18	0.5–1	4.8 x 0.8	19.5	100	$17.50
V70FH004005	20–18	0.5–1	6.3 x 0.8	20.9	100	$21.50
V70FH004006	16–14	1.5–2.5	2.8 x 0.5	18.8	100	$18.50
V70FH004007	16–14	1.5–2.5	2.8 x 0.8	18.8	100	$17.50
V70FH004008	16–14	1.5–2.5	4.8 x 0.5	19.5	100	$19.00
V70FH004009	16–14	1.5–2.5	4.8 x 0.8	19.5	100	$19.00
V70FH004010	16–14	1.5–2.5	6.3 x 0.8	20.9	100	$22.50
V70FH004011	12–10	4–6	6.3 x 0.8	23.8	100	$35.50

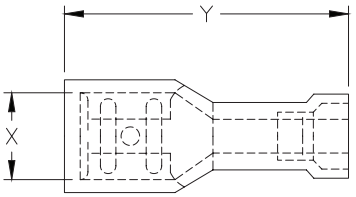


Fully Insulated PVC Female Disconnect Terminals



Fully Insulated Female Disconnect Terminals

Part Number	Cross Section		Dimension [mm]		Qty	Price
	AWG	mm²	X	Y		
V70FV004003	20–18	0.5–1	2.8 x 0.5	18.6	100	$22.00
V70FV004004	20–18	0.5–1	2.8 x 0.8	18.6	100	$22.00
V70FV004005	20–18	0.5–1	4.8 x 0.5	20.4	100	$22.50
V70FV004006	20–18	0.5–1	4.8 x 0.8	20.3	100	$25.00
V70FV004001	20–18	0.5–1	6.3 x 0.8	22.5	100	$25.50
V70FV004007	16–14	1.5–2.5	4.8 x 0.5	18.8	100	$24.50
V70FV004008	16–14	1.5–2.5	4.8 x 0.8	20.5	100	$24.00
V70FV004002	16–14	1.5–2.5	6.3 x 0.8	22.5	100	$27.00
V70FV004009	12–10	4–6	6.3 x 0.8	24.2	100	$40.50



Note: Dimensions are approximate. Please visit our website www.AutomationDirect.com for complete engineering drawings.

Wiring Accessories

Disconnect Terminals

Disconnect terminals are constructed from copper-enhanced PVC and brass. Heat resistant from -4 °F [-20 °C] up to +167 °F [+75 °C]. Flammability classification UL 94-V0.

- Insulation: polyvinyl chloride strengthened with copper
- Sleeve material: brass

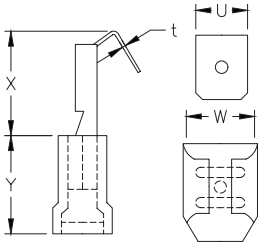
RoHS 2011/65/EU

Partially Insulated Piggy Back Disconnect Terminals



Piggy Back Disconnect Terminals

Part Number	Cross Section		Dimension [mm]					Qty	Price
	AWG	mm²	w	u	t	x	y		
V70FP004001	20–18	0.5–1	6.6	6.3	0.8	13.4	10.0	100	$29.00
V70FP004002	16– 14	1.5–2.5	6.6	6.3	0.8	13.4	11.0	100	$29.50
V70FP004003	12–10	4–6	6.6	6.3	0.8	13.4	12.0	100	$41.00

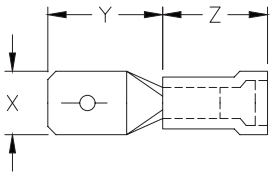


Partially Insulated PVC Male Disconnect Terminals



Partially Insulated Male Disconnect Terminals

Part Number	Cross Section		Dimension [mm]			Qty	Price
	AWG	mm²	X	Y	Z		
V70FS004001	20–18	0.5–1	2.8 x 0.5	8.0	10	100	$18.00
V70FS004002	20–18	0.5–1	2.8 x 0.8	9.0	9.5	100	$21.00
V70FS004003	20–18	0.5–1	4.8 x 0.5	9.0	9.9	100	$18.00
V70FS004004	20–18	0.5–1	4.8 x 0.8	9.4	10	100	$21.50
V70FS004005	20–18	0.5–1	6.3 x 0.8	10.8	10	100	$19.50
V70FS004008	16– 14	1.5–2.5	4.8 x 0.5	8.7	10	100	$19.00
V70FS004009	16– 14	1.5–2.5	4.8 x 0.8	9.2	10	100	$23.50
V70FS004010	16– 14	1.5–2.5	6.3 x 0.8	10.8	10	100	$21.00
V70FS004011	12–10	4–6	6.3 x 0.8	10.8	13	100	$34.00



Note :Dimensions are approximate. Please visit our website www.AutomationDirect.com for complete engineering drawings.

Wiring Accessories

Crimping Tools

Crimping Tools			
Part Number	**Description**	**Weight**	**Price**
K70ZA000113	Crimping tool for use with single ferrules AWG 20 - 10 [0.5 - 6 mm²] and twin ferrules AWG 2 x 18 - 2 x 12 [2 x 0.75 - 2 x 4 mm²]. 5 crimping positions. With and without insulating collar. Conforms to DIN 46228 part 1 and 2.	0.74lb [335g]	$171.00
K70ZA000117	Crimping tool for use with single ferrules AWG 10 - 4 [6 - 25 mm²] and twin ferrules AWG 2 x 12 - 2 x 8 [2 x 4 - 2 x 10 mm²]. 4 crimping positions. Conforms to DIN 46228 part 1 and 4.	1.19lb [540g]	$181.00
K70ZA000130	Crimping tool for PVC-insulated terminals AWG 20 - 10 [0.5 - 6 mm²]. 3 crimping positions.	1.12lb [510g]	$171.00

Note: Z&F crimping tools recommended by the ferrule manufacturer before terminating in terminal blocks, wire connectors, or end-product terminals (such as starters, etc.).

K70ZA000113



K70ZA000117



K70ZA000130



Crimping Tools Cross Reference				
	Part Number		K70ZA000113	K70ZA000117
	Standard	**DIN**		
Single Ferrules	V30AE000006	V30AE000038	X	—
	V30AE000009	V30AE000041	X	—
	V30AE000013	V30AE000045	X	—
	V30AE000016	V30AE000048	X	—
	V30AE000017	V30AE000049	X	—
	V30AE000052	V30AE000052	X	—
	V30AE000053	V30AE000053	X	—
	V30AE000055	V30AE000055	X	—
	V30AE000056	V30AE000056	X	—
	V30AE000025	V30AE000058	X	X
	V30AE000026	V30AE000059	X	X
	V30AE000027	V30AE000060	—	X
	V30AE000028	V30AE000061	—	X
	V30AE000029	V30AE000062	—	X
	V30AE000030	V30AE000063	—	X
	V30AE000031	V30AE000064	—	X
	V30AE000033	V30AE000067	—	—
	V30AE000035	V30AE000070	—	—
Twin Ferrules	V30AE001134	V30AE001145	X	—
	V30AE000606	V30AE000607	X	—
	V30AE000733	V30AE000734	X	—
	V30AE000608	V30AE000609	X	—
	V30AE000735	V30AE000736	X	—
	V30AE000623	V30AE000625	X	—
	V30AE000737	V30AE000738	X	—
	V30AE000611	V30AE000611	X	—
	V30AE000748	V30AE000748	X	—
	V30AE001148	V30AE001148	X	X
	V30AE001139	V30AE001150	—	X
	V30AE001141	V30AE001152	—	X
	V30AE001143	V30AE001154	—	X

Wiring Accessories – Crimping Tools

Crimping Tools Overview

Our high-quality industrial crimping tools are designed to crimp a wide range of insulated and non-insulated crimping terminals, ferrules, and connectors. They feature ergonomic handles and controlled-cycle ratcheting mechanisms to guarantee a uniform crimp every time. Choose from fixed or interchangeable die tools or tool/die sets with multiple dies.

Interchangeable-Die Crimping Tools

Part #	Description *	Qty	Price
DN-CT-HDL	Crimping tool handle for DN-CT-Dx dies (dies NOT included) Approximate dimensions: 9.75 x 2.52 x 0.95in (234 x 64 x 24mm); 16.2 oz (460g)	1	$75.00
DN-CT-D1	Die set for DN-CT-HDL; 26–22 & 12–10 AWG (0.1–0.4 & 4–6 mm^2) green & yellow insulated terminals	1	$95.00
DN-CT-D2	Die set forDN-CT-HDL; 22–14 AWG (0.5–2.5 mm^2) red & blue insulated terminals	1	$95.00
DN-CT-D3	Die set for DN-CT-HDL; 22–10 AWG (0.5–6 mm^2) non-insulated terminals	1	$81.00
DN-CT-D4	Die set for DN-CT-HDL; 24–8 AWG (0.25–10 mm^2) wire ferrules	1	$81.00
DN-CT-D5	Die set for DN-CT-HDL; 6–4 AWG (16–25 mm^2) wire ferrules	1	$81.00
DN-CT-D6	Die set for DN-CT-HDL; 2–1/0 AWG (35–50 mm^2) wire ferrules	1	$81.00
DN-CT-D7	Die set for DN-CT-HDL; 22–10 AWG (0.5–6 mm^2) open barrel non-insulated terminals	1	$127.00
DN-CT-D8	Die set for DN-CT-HDL; 8-pin (RJ45) modular plugs	1	$81.00
DN-CT-D9	Die set for DN-CT-HDL; 6-pin (RJ11/RJ12) modular plugs	1	$81.00
DN-CT-SET	Crimping tool modular system; includes handle and three die sets (DN-CT-HDL + DN-CT-D2 + DN-CT-D4 + DN-CT-D5) The die pairs are held together for easy handling, and interchange without separate tools.	1	$214.00

*** The DN-CT-xx series features a crimping tool with multiple interchangeable dies separately available. The die pairs are held together for easy handling, and can be interchanged without separate tools.**



DN-CT-HDL
Crimping Tool



DN-CT-SET
Crimping Tool & Die Set

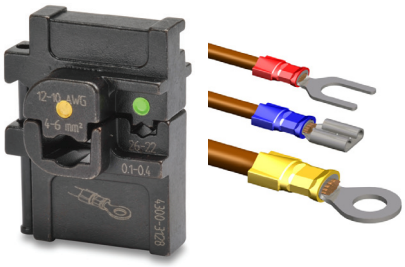
Wiring Accessories – Crimping Tool

DN-CT-Dx Interchangeable Crimping Dies (for DN-CT-xxx crimping tool only)

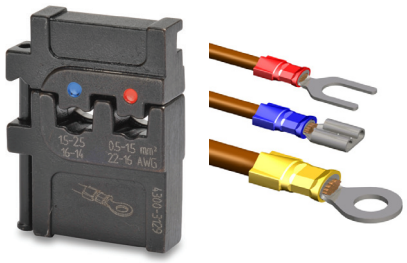
These dies are held together for easy handling, and can be interchanged without additional tools.
All DN-CT-Dx dies have been tested on leading brands of connectors to ensure quality connections.
Dies come in modular holders that can be connected together when not in use.



DN-CT-Dx die & holder



DN-CT-D1 (4300-3128)
Insulated Terminals & Connectors
26–22 AWG & 12–10 AWG
[Green & Yellow] (0.1–0.4 & 4–6 mm²)



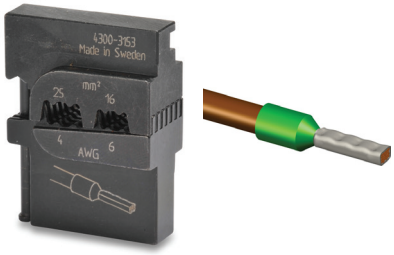
DN-CT-D2 (4300-3129)
Insulated Terminals & Connectors
22–14 AWG
[Red & Blue] (0.5–2.5 mm²)



DN-CT-D3 (4300-3142)
Non-Insulated Terminals & Connectors
22–10 AWG (0.5–6 mm²)



DN-CT-D4 (4300-3127)
Wire Ferrules
24–8 AWG (0.25–10 mm²)



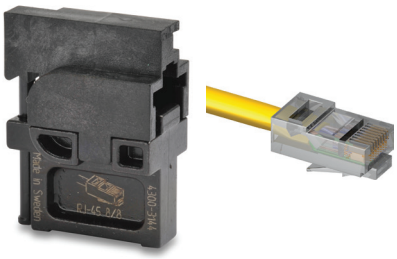
DN-CT-D5 (4300-3153)
Wire Ferrules
6–4 AWG (16–25 mm²)



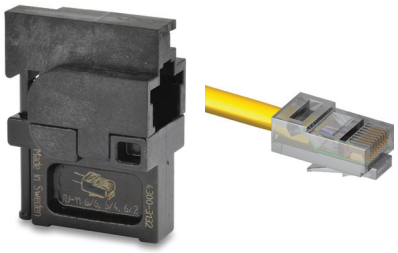
DN-CT-D6 (4300-3154)
Wire Ferrules
2–1/0 AWG (35–50 mm²)



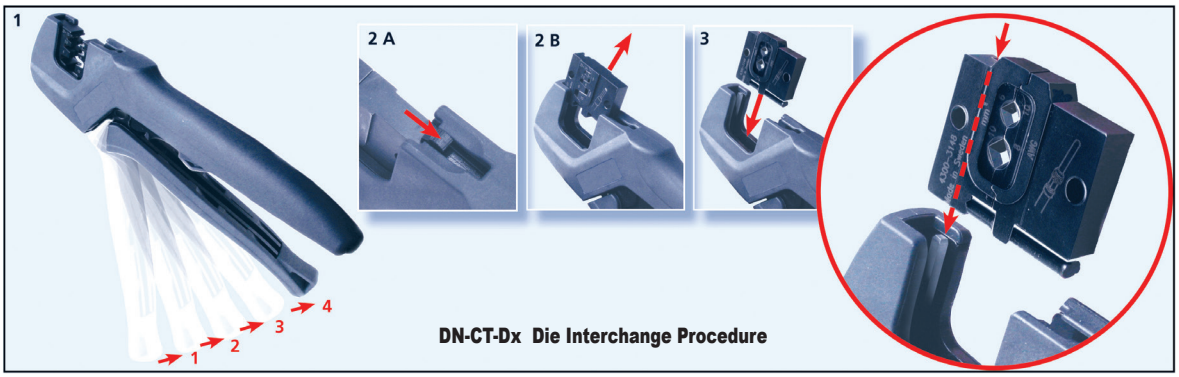
DN-CT-D7 (4300-3146)
Non-Insulated Open-Barrel Terminals
22–10 AWG (0.5–6 mm²)



DN-CT-D8 (4300-3144)
8-pin Modular Plugs
RJ45



DN-CT-D9 (4300-3132)
6-pin Modular Plugs
RJ11/RJ12



DN-CT-Dx Die Interchange Procedure