

Westinghouse Electric Corporation Distribution Apparatus Division

Bloomington, Indiana 47401

38-640 P WE A Price List

Page 1

February 26, 1976 Supersedes PL 38-640 dated October 15,1974 Prices effective April 29, 1974 Subject to change without notice Selling Policy 38-000

14.4/24.9, 27 and 20/34.5 Kv 100 and 200 Amps Interrupting Capacity Up to 16000 Amps

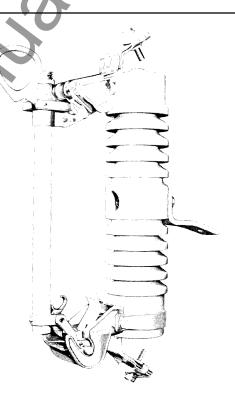
Non-Loadbreak **Open Fuse Cutouts** Type LDX

Standard Bill of Material/Design **Features**

Mailed to E, D, C/1991, 2430/PL

- •100 Amp cutouts include tin plated parallel groove connectors suitable for copper or aluminum conductors from No. 8 to 4/0
- •200 Amp cutouts and 300 Amp disconnects include eyebolt connectors suitable for copper or aluminum conductors from No. 6 to 250 MCM.
- •Fuse holders for 14.4/24.9 and 1 shot 27Kv cutouts are identical in length.
- •All cutouts are furnished with NEMA "B" crossarm mounting brackets.
- •All castings are molded from aluminum bronze ingots, except the disconnect blades which are molded from manganese bronze.
- •All Westinghouse fuse holders will accommodate either solid or expendable caps.

- •100 Amp heavy duty cutouts have paper tubes impregnated with a phenolic resin. Tubes are centerless ground and painted ASA-70 grey.
- •100 Amp extra heavy duty cutouts and all 200 Amp cutouts have glass filament wound tubes with an epoxy resin binder, Tubes are centerless ground and are not painted.
- •200 Amp cutout can be converted to a 300 Amp disconnect by interchanging the fuse holder and the appropriate length disconnect blade from the Parts Section of this Price



Voltage Rating

Single Voltage

Cutouts with single voltage ratings are suitable for application on circuits with lineto-line voltages not in excess of value shown.

Dual Voltage

The use of LDX cutouts is verified by extensive tests conducted on all voltages from 34.5 kv multi-grounded wye down to 2.4 kv delta. These cutouts are suitable for application on single phase circuits having maximum line-to-ground voltage not in excess of value shown to the left of diagonal line. For three phase circuits, the maximum lineto-line voltage should not exceed the value shown to the right of the diagonal line.

Interrupting Rating

Interrupting ratings for Westinghouse LDX cutouts are established on the basis of the maximum line-to-ground voltage across the fuse tube.

The voltages used in establishing the ratings are as follows:

Cutout Voltage Rating		Fuse Esta	Voltage Across Fuse Tube to Establish Interrupting Rating		
14.4/24.9	KV	15	KV		
20/34.5	KV	20	KV		
27	KV	27	KV		

Single Cutout List Prices, Standard Styles: Order by Style Number on Tops or Q-090

Description	Cont. Current Rating	NEMA Interrupting Rating RMS Asym. Amps	BIL	Style Number '73 Design	Style Number '74 Design	List Price	Wt. Lbs With Bri Net		Cutouts Per Pallet
14.4/24.9 KV Grounded Wye I	Maximum Vol	tage							
Heavy Duty (Solid Cap)	100	4000	125	633A696A01	236C909A15	41.30	28	31	12
Heavy Duty (Exp. Cap)	100	8000	125	633A693A01	236C909A16	41.80	28	31	12
Extra Heavy Duty (Solid Cap)	100	8000	125	633A697A01	236C909A17	42.70	28	31	12
Extra Heavy Duty (Exp. Cap)	100	16000	125	633A695A01	236C909A18	42.80	28	31	12
Normal Duty (Solid Cap)	200	4000	125	633A698A01	236C909A19	48.20	29	33	12
Heavy Duty (Exp. Cap)	200	10000	125	633A699A01	236C909A20	49.20	29	33	12
Disconnect	300		125	633A701A01	236C909A21	47.40	29	33	12
20/34.5 KV Grounded Wye M	aximum Volta	ge					<u> </u>		
Heavy Duty (Solid Cap)	100	2000	150	633A313A01	236C909A22	43.50	27	30	12
Heavy Duty (Exp. Cap)	100	1 2 000	150	633A314A01	236C909A23	43.90	27	30	12
27 KV Maximum Voltage									
Heavy Duty (Exp. Cap)	100	8000	150	633A988A01	236C909A25	44.70	27	30	12
Extra Heavy Duty (Exp. Cap)	100	8000@	125	634A092A01	236C909A40	42.90	28	31	12

① For 7.8/13.8 and 15 KV cutouts refer to 38-650 P WE A.

② One shot rating. Fuse holder has to be replaced after 8000 amp operation. Designed for application on 25 KV grounded wye systems where faults on three phase equipment installations may see recovery voltages as

high as 27 KV. Where recovery voltage does not exceed 15 KV, which is usually the case on three phase installations and all single phase installations, the cutout has a 5-shot rating of 16000 Amps asymmetrical.

Cutout-Arrester Combination

List Prices: Order by Style Number on TOPS

Style No. Style No.	Cont. Type		e Interrupting	Cutout	Arrester	List	Approx.		Cutouts	
73 Design	74 Design	Amps	of Mtg.	Amps Exp. Cap.	Description	Rating	Price	Wt. Lbs. Net	Ship- ping	Per Pallet
14.4/24.9 Kv Gi	ounded Wye Maxim	um Voltage								
633A324A01 633A323A01	236C912A08 236C912A07	100 100	Crossarm Pole	8,000 8,000	Heavy Duty Heavy Duty	18 18	85.20 85.20	37 36	41 40	8 8



Parts Fuse Holders and Disconnect Blades for LDX Cutouts Order by Style Number on Q-09 Only

Description	Continuous Current Rating Amperes	NEMA Interrupting Rating Rms Asymmetrical Amperes	For LDX Cutout; Style Number of Fuse Holder or Disconnect Blade	RAMAD	List Price
For 7.8/13.8 Kv Cutouts					
Heavy Duty (Solid Cap) Heavy Duty (Exp. Cap) Extra Heavy Duty (Solid Cap) Extra Heavy Duty (Exp. Cap)	100 100 100 100	5000 10000 10000 20000	633A342A01 633A343A01 633A344A01 633A345A01	16524 16532 16540 16548	\$15.90 15.90 19.30 19.30
Normal Duty (Solid Cap) Heavy Duty (Exp. Cap) Disconnect	200 200 300	6000 12000	633A347A01 633A348A01 680A239G01	16564 16572 13800	22.70 22.70 17.60
For 15 Kv Cutouts				A	
Heavy Duty (Solid Cap) Heavy Duty (Exp. Cap) Extra Heavy Duty (Solid Cap) Extra Heavy Duty (Exp. Cap) Normal Duty (Solid Cap)	100 100 100 100	4000 8000 8000 16000	633A497A01 633A498A01 367C083G05 367C083G07	16580 16588 25598 32175 58676	17.00 17.00 20.45 20.45
Heavy Duty (Exp. Cap) Disconnect	200 300	10000	367C694G08 680A239G02	58677 13808	23.85 19.30
For 14.4/24.9 Kv Cutouts					
Heavy Duty (Solid Cap) Heavy Duty (Exp. Cap) Extra Heavy Duty (Solid Cap) Extra Heavy Duty (Exp. Cap)	100 100 100 100	4000 8000 8000 16000	633A499A01 633A500A01 678A523G17 678A523G19	16596 16604 16395 16403	17.00 17.00 20.45 20.45
Normal Duty (Solid Cap) Heavy Duty (Exp. Cap) Disconnect	200 200 300	4000 10000 	678A523G27 678A523G28 680A239G02	16660 16411 13808	23.85 23.85 19.30
For 20/34.5 Kv Cutouts					
Heavy Duty (Solid Cap) Heavy Duty (Exp. Cap)	100 100	2000 12000	633A316A01 633A317A01	37018 37025	23.85 23.85
For 27 Kv Cutouts					
Heavy Duty (Exp. Cap) Extra Heavy Duty (Solid Cap)	100 100	8000 8000	634A091A01 634A093A01	74377 74378	23.85 20.45
Spare Caps for Fusehold	ders)			
Description		Style Number of Each Cap	RAMAD		Price ach Cap
For 100 Amp Cutouts	V				
Solid Cap for All 100 Amp LDX Expendable Cap for All 100 Amp	LDX Heavy Duty	162A775H02 3872A21G01		\$1.8 1.8	
For 200 Amp Cutouts					
Solid Cap for All 200 Amp LDX Expendable Cap for 200 Amp LD.	X Heavy Duty	162A775H03 161A292H03		1.8 3.4	

Optional Features/Accessories the standard style table on the basis of the Once the cutout bill of material and list The standard styles can be modified in a cutout voltage, current, and interrupting price have been determined, a style number must be assigned for order entry. This style variety of ways. To price a cutout other than rating and then add or subtract the moda standard style, select the base price from ification price additions or deductions to the number is available from the Distribution Apparatus Division, Bloomington, Indiana. base price to determine the total list price. Modi- Accessory **List Price** Standard Modification fica-Adders (+) Configuration Configuration tion or Number Deducts (-) 200 Amp 100 Amp 200 Amp main contacts Α on 100 Amp cutouts. NOTE: 100 Amp cutouts are normally furnished with a main contact capable of carrying 100 Amps continuous with a fuseholder or 200 Amps with a disconnect blade. \$0.90 В Delete the NEMA "A" ← 1.5 or 1.75 (366C723G05) or "B" (403A101G03) bracket. .6875 Dia. Hole 8.0625 313 or 375 G 4375 Square - \$1.15 С • 1.5 **•** 5.000 5.000 Furnish NEMA "B" brac-**-1.75**ket (403A101G03) in place of NEMA "A 2.687 2.687 bracket (366C723G05). 4.000 4.000 (Do not deduct for NEMA "A") .6875 Dia. Hole 4.125 4.125 8.125 to 5.156 .375 5.156 .4375 + \$0.75 D Eyebolt connectors to accommodate No. 6 to 250 MCM copper or aluminum conductors in place of the parallel groove connectors 5554A16H01 on 100 Amp cutouts that accommodate #8 solid to 4/0 ACSR. Two required per cutout. (628A333H01) \$1.00 Ea. Connector Ε Furnish parallel groove connector 5554A16H01 that accommodates #8 solid to 4/0 ACSR on 200A cutouts in place of standard eyebolt that accommodates No. 6 to 250 MCM (628A333H01). Two required per cutout. \$1.00 Ea. Connector

Modi- fica- tion Numbe	Accessory	List Price Adders (+) or Deducts (-)	Standard Configuration	Modification Configuration
F	Eyebolt connector accommodate No 2/0 copper or alui conductors in plac parallel groove co on 100 Amp cuto Two required per (678A517G01)	. 8 to minum ce of the nnectors uts.		.500 1.53 1.08 1.64 Hex
G	Special hookeye t crease the opening by a factor of app mately 3. (803B20	g force roxi-	· ·	
н	Oversize crossarming bracket for croup to 6-1/8" in he and 4-1/2" in wid Standard NEMA bis for 3" x 4" to 4' crossarms. (366CS	mount- pssarms eight lth. pracket " x 5"	.4375 .6875 Dia. Hole 4.000 4.125 to 5.156 Square 5.156	.438 .421 .781 Dia, Hole .500 Square
ı	6" Carriage bolts 1 for NEMA brackets of the standard 5" riage bolts 161A48 furnished as part o standard style.	s in place car- 37H01	5.00	6.00
	Cork gasket moun cushion under the the top contact bo the back bracket b	nut on olt and		Gosket

Optional Features/Accessories for Standard Units and Combination Units, Continued **List Price** Standard Modi- Accessory Modification fica-Adders (+) Configuration Configuration tion Deducts (-) Number Κ 1/2" x 1-1/2" bolt assembled into the cutout mounting bracket, including lock washer and star washer. NOTE: This carriage bolt is normally pressed into the "L" bracket of the NEMA mounting bracket. When the bolt is to be assembled by the user into the mounting bracket, a deduct should be made for the bracket per modification "B" if it is not required. + \$0.35 L Hooks for use with the S & C loadbuster tool. + \$0.90 Μ Seacoast design. All galvanized steel parts on the cutout are replaced either by stainless steel or silicon bronze parts. This includes the top contact terminal support and stop, the top contact and mounting bracket bolts, the bottom clamp, and the bottom clamping bolts as indicated by arrows.

A

NOTE: Adder for arrester

also required.

Optional Features/Accessories for Standard Units and Combination Units, Continued Modi- Accessory **List Price** Standard Modification fica-Adders (+) Configuration Configuration tion or Number Deducts (-) Elongated "L" bracket 367C802H13 with an "A" Ν dimension of 5". NOTE: Standard "L" bracket 366C723H01 has an "A" dimension of 2-1/4". + \$1.15 0 Universal mounting bracket on combination units to provide either pole or crossarm mounting. 4.12 to 5.12 + \$1.50 Solderless Connectors on Top and Bottom Terminals for Number 6 Solid to Number 2 Stranded Cable Ρ Bracket for mounting two (2) arresters on either type of combination mounting bracket: + \$1.65

Optional Features/Accessories for Standard Units and Combination Units, Continued

Modification Number	Accessory	List Price Adders (+) or Deducts (-)
Q	To furnish the following arrester on a combination unit in place of a 10 KV arrester: 3 KV 6 KV 12 KV 15 KV	- \$4.30 - 2.25 + 4.00 + 7.90
R	To furnish second arrester on a combination unit for dual mounting: 3 KV 6 KV 9/10 KV 12 KV 15 KV 18 KV	+ \$12.20 + 14.20 + 16.20 + 21.20 + 25.20 + 31.21
S	To furnish a 200 Amp cutout on a combination unit in place of a 100 Amp cutout.	+ \$7.50

Further Information

Description: DB 38-621 LBU,
DB 38-641 LDX, 38-651 D WE A, NCX
Fuse Links Section 38-660
Enclosed Fuse Cutouts 38-610
Current Limiting Cutouts PL 38-630
Loadbreak Cutouts PL 38-620
Non-Loadbreak Cutouts 38-650 P WE A

Printed in U.S.A



Westinghouse Electric Corporation Distribution Apparatus Division Bloomington, Indiana 47401 38-640 P WE A Price List

Page 1

October 15, 1974
Supersedes PL 38-640 dated April 29, 1974
Pages 1-2 and PL 38-650,
dated April 4, 1974, pages 1-2
Prices effective April 29, 1974
Subject to change without notice
Selling Policy 38-000
Mailed to E, D, C/1991/PL

7.8/13.8, 15 and 14.4/24.9, 20/34.5 Kv 50, 100 and 200 Amps Interrupting Capacity Up to 20000 Amps

Non-Loadbreak Open Fuse Cutouts Type LDX

Standard Bill of Material/Design Features

- •100 Amp cutouts include tin plated parallel groove connectors suitable for copper or aluminum conductors from No. 8 to 4/0 ACSR.
- 200 Amp cutouts and 300 Amp disconnects include eyebolt connectors suitable for copper or aluminum conductors from No. 6 to 250 MCM.
- •Fuse holders for 15Kv and 14.4/24.9 and 1 shot 27Kv cutouts are identical in length. The only difference in the cutouts is the BIL of the cutouts which is determined by the diameter of the porcelain.
- •100 Amp 7.8/13.8Kv and 15Kv cutouts have NEMA "A" brackets. All other cutouts are furnished with NEMA "B" crossarm mounting brackets.

- •All castings are molded from aluminum bronze ingots, except the disconnect blades which are molded from manganese bronze.
- All Westinghouse fuse holders will accommodate either solid or expendable caps.
- •100 Amp heavy duty cutouts have paper tubes impregnated with a phenolic resin. Tubes are centerless ground and painted ASA-70 grey.
- •100 Amp extra heavy duty cutouts and all 200 Amp cutouts have glass filament wound tubes with an epoxy resin binder. Tubes are centerless ground and are not painted.
- •200 Amp cutout can be converted to a 300 Amp disconnect by interchanging the fuse holder and the appropriate length disconnect blade from the Parts Section of this Price List.

Voltage Rating

Single Voltage

Cutouts with single voltage ratings are suitable for application on circuits with line-to-line voltages not in excess of value shown.

Dual Voltage

The use of LDX cutouts is verified by extensive tests conducted on all voltages from 34.5 kv multi-grounded wye down to 2.4 kv delta. These cutouts are suitable for application on single phase circuits having maximum line-to-ground voltage not in excess of value shown to the left of diagonal line. For three phase circuits, the maximum line-to-line voltage should not exceed the value shown to the right of the diagonal line.

Interrupting Rating

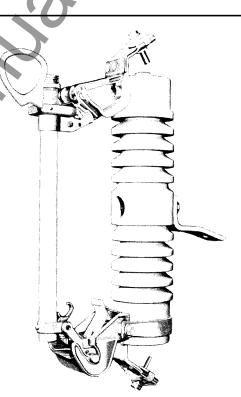
Cutout

Interrupting ratings for Westinghouse LDX cutouts are established on the basis of the maximum line-to-ground voltage across the fuse tube.

The voltages used in establishing the ratings are as follows:

Voltage Across

Voltage Rating		Fuse Tube to Establish Interrupting Rating		
7.8/13.8	ΚV	7.8	KV	
15	KV	15	KV	
14.4/24.9	KV	15	KV	
20/34.5	KV	20	KV	
27	KV	27	KV	





Optional Features/Accessories for Standard Units and Combination Units, Continued

Modification Number	Accessory	List Price Adders (+) or Deducts (-)
S	To furnish the following arrester on a combination unit in place of a 10 KV arrester: 3 KV 6 KV 12 KV 15 KV	- \$4.30 - 2.25 + 4.00 + 7.90
T	To furnish second arrester on a combination unit for dual mounting: 3 KV 6 KV 9/10 KV 12 KV 15 KV 18 KV	+ \$12.20 + 14.20 + 16.20 + 21.20 + 25.20 + 31.21
U	To furnish a 200 Amp cutout on a combination unit in place of a 100 Amp cutout.	+ \$7.50

Further Information

Description: DB 38-621 LBU, DB 38-641 LDX Fuse Links Section 38-660 Enclosed Fuse Cutouts 38-610 Current Limiting Cutouts PL 38-630 Loadbreak Cutouts PL 38-620

Westinghouse



Non-Loadbreak Open Fuse Cutouts

Type LDX

7.8/13.8, 15 and 14.4/24.9 20/34.5 Kv 50, 100 and 200 Amps Interrupting Capacity Up to 20000 Amps

Dual Voltage

The use of LDX cutouts is verified by extensive tests conducted on all voltages from 34.5 kv multi-grounded wye down to 2.4 kv delta. These cutouts are suitable for application on single phase circuits having maximum line-to-ground voltage not in excess of value shown to the left of diagonal line. For three phase circuits, the maximum line-to-line voltage should not exceed the value shown to the right of the diagonal line.

Single Voltage

Cutouts having single voltage ratings are suitable for application on circuits with line-to-line voltages not in excess of value shown.

List Prices, Single Insulator: Order by Style Number on TOPS®

Description	Contin- uous	NEMA Int. Rat-	Kv BIL	Sky Gray Style	List Price	Wt. L with	
	Current Rating Amperes	ing Rms Asym. Amperes	_(Number ①②		Net	Ship ping
7.8/13.8 Kv Grounded Wye N	1aximum V	oltage					
Heavy Duty (Solid Cap)	100	5000	95	633A326A01	\$26.90	17	20
Heavy Duty (Exp. Cap)	100	10000	95	633A327A01	26.90	17	20
Extra Heavy Duty (Solid Cap)	100	10000	95	633A328A01	28.90	17	20
Extra Heavy Duty (Exp. Cap)	100	20000	95	633A329A01	28.90	17	20
Normal Duty (Solid Cap)	200	6000	95	633A331A01	34.70	19	22
Heavy Duty (Exp. Cap)	200	12000	95	633A332A01	34.70	19	22
Disconnect	300	(95	633A333A01	29.95	19	22
15 Kv Maximum Voltage							
Heavy Duty (Solid Cap)	100	4000	95	633A473A01	28.90	20	23
Heavy Duty (Exp. Cap)	100	8000	95	633A474A01	28.90	20	23
Extra Heavy Duty (Solid Cap)	100	8000	95	633A475A01	34.45	20	23
Extra Heavy Duty (Exp. Cap)	100	16000	95	633A476A01	34.45	20	23
Normal Duty (Solid Cap)	200	4000	95	633A478A01	35.90	22	25
Heavy Duty (Exp. Cap) Disconnect	200 300	10000	95 95	633A479A01 633A480A01	35.90 34.45	22 22	25 25
14.4/24.9 Kv Grounded Wye	Maximum \	oltage/			_		
Heavy Duty (Solid Cap)	100	4000	125	633A696A01	32.45	28	31
Heavy Duty (Exp. Cap)	100	8000	125	633A693A01	32.45	28	31
Extra Heavy Duty (Solid Cap)	100	8000	125	633A697A01	37.45	28	31
Extra Heavy Duty (Exp. Cap)	100	16000	125	633A695A01	37.45	28	31
Normal Duty (Solid Cap)	200	4000	125	633A698A01	43.45	29	33
Heavy Duty (Exp. Cap)	200	10000	125	633A699A01	43.45	29	33
Disconnect	300		125	633A701A01	37.45	29	33
20/34.5 Kv Grounded Wye M	aximum Vo	Itage					
Heavy Duty (Solid Cap)	100	2000	150	633A313A01	41.95	27	30
Heavy Duty (Exp. Cap)	100	12000	150	633A314A01	41.95	27	30

① 100 ampere LDX style numbers include tin-plated parallel groove type terminals suitable for copper or aluminum conductors from No. 8 solid to 4/0 ACSR. 200 ampere cutouts include eyebolt terminals suitable for conductors No. 6 to 250 MCM.

② Style numbers and prices do not include Fuse Links. See Price List 38-660 for rating desired.

^{3 14.4/24.9} Kv and 20/34.5 Kv units are packed 18 per pallet. All others are 24 units per pallet.

Non-Loadbreak **Open Fuse Cutouts**

Type LDX

7.8/13.8, 15 and 14.4/24.9, 20/34.5 Kv 50, 100 and 200 Amps Interrupting Capacity Up to 20000 Amps

Fuseholders and Disconnect Blades for LBU and LDX Cutouts

For 7.8/13.8 Kv Cutouts		Amperes	for Fuse Holder	Price
Heavy Duty (Solid Cap)	100	5000	633A342A01	\$14.00
Heavy Duty (Exp. Cap)	100	10000	633A343A01	14.00
Extra Heavy Duty (Solid Cap)	100	10000	633A344A01	17.00
Extra Heavy Duty (Exp. Cap)	100	20000	633A345A01	17.00
Normal Duty (Solid Cap)	200	6000	633A347A01	20.00
Heavy Duty (Exp. Cap)	200	12000	633A348A01	20.00
Disconnect	300	• • • • •	680A239G01	15.50
For 15 Kv Cutouts (100 Amp C	Cutouts Only)			
Heavy Duty (Solid Cap)	100	4000	633A497A01	15.00
Heavy Duty (Exp. Cap)	100	8000	633A498A01	15.00
Extra Heavy Duty (Solid Cap)	100	8000	367C083G05	18.00
Extra Heavy Duty (Exp. Cap)	100	16000	367C083G07	18.00
For 15 Kv Cutouts (200 Amp C	Cutouts Only)			
Normal Duty (Solid Cap)	200	4000	367C694G07	21.00
Heavy Duty (Exp. Cap)	200	10000	367C694G08	21.00
Disconnect	300	• • • • •	680A239G02	17.00
For 14.4/24.9 Kv Cutouts (100	Amp Cutouts Onl	y)		
Heavy Duty (Solid Cap)	100	4000	633A499A01	4-00
Heavy Duty (Solid Cap)	100	8000	633A500A01	15.00 15.00
Extra Heavy Duty (Solid Cap)	100	8000	678A523G17	18.00
Extra Heavy Duty (Exp. Cap)	100	16000	678A523G19	18.00
For 14.4/24.9 Kv Cutouts (200	Amp Cutouts Onl	y)		
		4000	0704500007	
Normal Duty (Solid Cap)	200 200	4000 10000	678A523G27	21.00
Heavy Duty (Exp. Cap) Disconnect	300	10000	678A523G28 680A239G02	21.00 17.00
For 20/34.5 Kv Cutouts			•	
Heavy Duty (Solid Cap)	100	2000	633A316A01	24.00
Heavy Duty (Solid Cap)	100	12000	633A317A01	21.00 21.00

Spare Caps for Fuseholders

Description Description	Style Number of Each Cap	List Price of Each Cap
For 100 Amp Cutouts		
Solid Cap for All 100 Amp LDX	162A775H02	\$1.60
Expendable Cap for All 100 Amp LDX Heavy Duty	161A292H01	1.60
For 200 Amp Cutouts		
Solid Cap for All 200 Amp LDX	162A775H03	1.60
Expendable Cap for 200 Amp LDX Heavy Duty	161A292H03	3.00

Further Information

Description: DB 38-621 4BU, DB 38-641

LDX

Fuse Links Section 38-660 **Enclosed Fuse Cutouts 38-610**