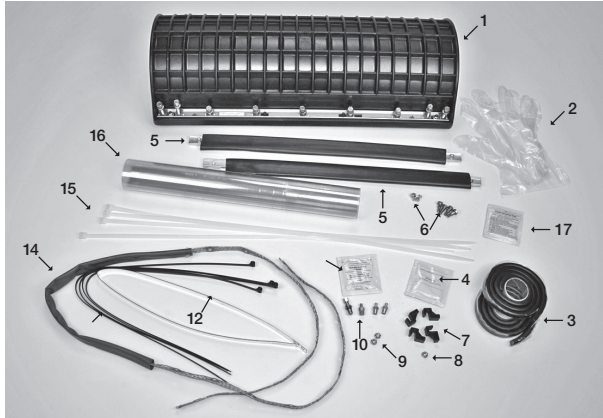


3M™ Closure System 2-Type 505-Cover



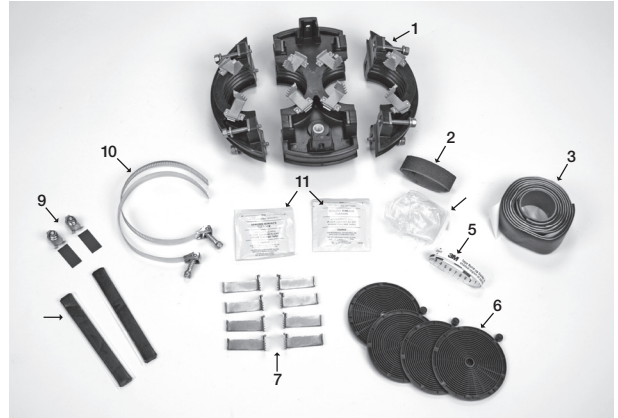
Each complete 2-Type

Cover 505 Selection Contains:

1. Cover Halves with installed Sealing Gasket
2. Protective Gloves
3. 3M™ Sealing R-Tape
4. 3M™ Dry Towlette Wipe DTW
5. Alignment Bars
6. Alignment Bar Hardware
7. Back Cover Clips
8. Flanged Hex Nut

9. Hex Nuts
10. Pressure Valve
11. 3M™ Cleaning Wipes CSSC20
12. External Ground Ribbon
13. Black Cable Ties
14. Bond Braided with Eyelets
15. White Cable Ties
16. Splice Wrap

3M™ Closure System 2-Type 505-Endplates



Each complete 2-Type

Endplate 505 Selection Contains:

1. Endplate Sections
2. Sheath Scuff
3. 3M™ Sealing Tape RTW
4. Protective Gloves
5. Cable Diameter Tape

6. Sealing Washers
7. Additional Longer Cable Retention Clamps (depending upon endplate ordered)
8. 3M™ Sealing Tape RTE
9. 3M™ Shield Bond Connectors
10. Hose Clamps
11. 3M™ Cleaning Wipes CSSC20

ORDERING GUIDE for the 3M™ Closure System 2-Type 505

2-Type Closure System Washer Selection Chart

2-Type Endplate Cable Entrance Configuration	Series	Diameter	Single Entry* (1E)			Double Entry* (2E)			Triple Entry* (3E)		
			A	A	B	A	B	C	A	B	C
2Y2-(*)	3" (77)	-	FS	FS	-	-	-	-	-	-	
2X2-(*)	4" (102)	-	FS	FS	-	-	-	-	-	-	
2A2-(*)	5 1/4" (134)	HS	GS	FS	-	-	-	-	-	-	
2B2-(*)	7" (178)	KS	HS	HS	HS	FS	FS	FS	FS	FS	
2C2-(*)	8" (203)	KS	JS	JS	JS	GS	GS	GS	GS	GS	
2D2-(*)	9 1/2" (241)	KS	KS	KS	KS	HS	HS	HS	HS	HS	
2E2-(*)	12" (305)	-	MS	MS	LS	KS	KS	KS	KS	KS	

UNIVERSAL SLOTTED WASHER SIZING CHART

Universal Slotted Washer Size	Cable O.D. Range Inches (mm)
FS	0.4" (10.2) - 1.0" (25.4)
GS	0.4" (10.2) - 1.6" (40.6)
HS	0.4" (10.2) - 2.2" (51)
JS	0.4" (10.2) - 2.8" (71.1)
KS	0.4" (10.2) - 3.4" (86.4)
LS	1.6" (40.6) - 4.0" (101.6)
MS	1.6" (40.6) - 4.4" (111.8)

NOTE: Universal Slotted Washers are shipped 2/package. 2 washers are required for each cable entrance in a 2-Type Closure Endplate.

NOTE: Universal Slotted Washers may be used for plugging unused cable openings.

ACCESSORIES:

- 3M™ Washer Cutter Tool WCT11K
- 3M™ Spare Blade Kit WCB11K
- 3M™ Aerial Hanger Kit AH20K
- 3M™ Underground Closure Support Kit UCS10K
- 3M™ Plugging Spools
- 3M™ 2-Type Tool Kit 2-TYPE/TK
- 3M™ 4-Hole Spool Kit KWSP04
- 3M™ Universal Alignment Tool Kit UAT20K

TOOLS REQUIRED

- (not included with cover or endplate kits)
- Washer Cutter Tool
 - Speed Wrench
 - Torque Wrench (250 in./lbs. (2.9 kgm))
 - Can Wrench with 3/8" (9.5 mm) and 7/16" (11 mm) ends
 - 1/2" (13 mm) and 7/16" (11 mm) deep wrench sockets
 - 3" (76 mm) socket extender
 - Screw Driver
 - Snips
 - Knife
 - Tabbing Shears

Communication Markets Division

Building A130-2N-03
6801 River Place Boulevard
Austin, TX 78726-9000
1-800-426-8688 Fax: 800-626-0329

© 3M 2009. All rights reserved
80-6113-2871-9



3M™ Closure System 2-Type 505-Cover Selection

Determine number of cable pairs, splice bundle diameter and sheath opening required.
Use the proper ordering code, from this table, to indicate your cover selection.

Series Number	2Y2	2X2	2A2	2B2	2C2	2D2	2E2	
Inside Diameter, Inches (mm)	3" (77)	4" (102)	5 1/4" (134)	7" (178)	8" (203)	9 1/2" (241)	12" (305)	
Overall Length	Sheath Opening	Standard Sizes - Example 2D2A		Ordering Codes	Custom Sizes - Example 2D2D			
18 1/2" (470)	10" (254)	2Y2AA	2X2AA	2A2AA	2B2AA	2C2AA	2D2AA	2E2AA
27 1/2" (699)	19" (483)	2Y2A	2X2A	2A2A*	2B2A*	2C2A*	2D2A*	2E2A*
Maximum number of cable pairs ⁽¹⁾		100	100	600	1200	1800	3600	4200
36" (914)	27 1/2" (699)	2Y2B	2X2B	2A2B*	2B2B*	2C2B*	2D2B*	2E2B*
44 1/2" (1130)	36" (914)	2Y2C	2X2C	2A2C*	2B2C*	2C2C*	2D2C*	2E2C*
48 1/2" (1232)	40" (1016)	2Y2D	2X2D	2A2D	2B2D	2C2D	2D2D	2E2D
52 3/4" (1340)	44 1/4" (1124)	2Y2E	2X2E	2A2E	2B2E	2C2E	2D2E	2E2E
57" (1448)	48 1/2" (1232)	2Y2F	2X2F	2A2F	2B2F	2C2F	2D2F	2E2F
61 1/2" (1563)	53" (1346)	2Y2G	2X2G	2A2G	2B2G	2C2G	2D2G	2E2G
65 1/2" (1664)	57" (1448)	2Y2H	2X2H	2A2H	2B2H	2C2H	2D2H	2E2H
69 3/4" (1772)	61 1/4" (1556)	2Y2I	2X2I	2A2I	2B2I	2C2I	2D2I	2E2I
74" (1880)	65 1/2" (1664)	2Y2J	2X2J	2A2J	2B2J	2C2J	2D2J	2E2J
78 1/2" (1994)	70" (1778)	2Y2K	2X2K	2A2K	2B2K	2C2K	2D2K	2E2K
82 1/2" (2096)	74" (1880)	2Y2L	2X2L	2A2L	2B2L	2C2L	2D2L	2E2L

⁽¹⁾ Maximum number of cable pairs based on the following specifications: 2Y2 & 2X2 Series = 24/26 gauge cable using 25 pair modular connectors for straight, in-line, 1-bank splice (18 1/2" overall cover length, 10" sheath opening) 2A2, 2B2, 2C2, 2D2, & 2E2 Series. = 24/26 gauge cable using 25 pair modular connectors for straight, in-line, 2-bank splice (27 1/2" overall cover length, 19" sheath opening).
* Alignment bars provided in 505 ISG cover kits. Bold type indicates standard covers.

3M Closure System 2-Type 505-Endplate Selection

Determine cable entrance configuration and outside diameter of each cable.
Select two endplates assemblies using the proper ordering code from this table.

Number of Cable Openings/Endplate	1	2	3
Ordering Code	*1E	*2E	*3E

2-Type Endplate Cable Entrance Configuration



Series	Diameter Inches (mm)	Maximum Cable Outside Diameter					
		A	A	B	A	B	C
2Y2-(*)	3" (77)	N/A	1.0" (25)	1.0" (25)	N/A	N/A	N/A
2X2-(*)	4" (102)	N/A	1.0" (25)	1.0" (25)	N/A	N/A	N/A
2A2-(*)	5 1/4" (134)	2.2" (56)	1.6" (41)	1.3" (33)	N/A	N/A	N/A
2B2-(*)	7" (178)	3.4" (86)	2.2" (56)	2.2" (56)	2.2" (56)	1.0" (25)	1.0" (25)
2C2-(*)	8" (203)	3.4" (86)	2.8" (71)	2.8" (71)	2.8" (71)	1.6" (41)	1.6" (41)
2D2-(*)	9 1/2" (241)	3.4" (86)	3.4" (86)	3.4" (86)	3.4" (86)	2.2" (56)	2.2" (56)
2E2-(*)	12" (305)	N/A	4.4" (112)	4.4" (112)	4.0" (102)	3.4" (86)	3.4" (86)

Example: Number of cable pairs = 1200/24 gauge (.5 mm)

Sheath opening = 19" (483 mm)

Cable configuration = 3-way

1200 pairs in /600 pairs out x 600 pairs out

Cable outside diameters: 1200 pairs - 2.6" (66 mm) 600 pairs = 1.9" (48 mm)

NOTE: 2D2 series endplates may be used with 2E2 series neckdown covers.

NOTE: .88" - 1.1" = 22 mm - 28 mm

Correct codes to order one cover and two endplates

1 each - 2B2A-505 Cover Assembly

1 each - 2B2-1E-505 Endplate Assembly

1 each - 2B2-2E-505 Endplate Assembly