

NELSON MCT Cable Transit System

Firestop Products Fire Rated, Environmental Cable Sealing Systems

Fittings

CABLE SEALING SYSTEMS

Applications

- Nelson MCT is a proven mechanical cable and pipe sealing system for use in commercial building wall and floor penetrations and in marine bulkhead and deck applications providing protection from fire, smoke, water and blast pressures.

Features

- Welded frames and Tecron rubber based modules provide the most secure and tight system available in the industry from cable pullout and against shock and vibration.
- Modules are available in 15 mm (0.59"), 20 mm (0.79"), 30 mm (1.18"), 40 mm (1.57"), 60 mm (2.36"), 90 mm (3.54") and 120 mm (4.72") base sizes and for cable diameters ranging from 4 mm (0.156") to 95 mm (3.74").
- Frames are provided in four opening sizes in single to multiples and tandem arrangements.
- MCT Multi-Cable Transit – Large variety of frame systems utilized welded frames for bolting, welding or casting into place.
- Transit Frames provide the housing for the array of Tecron modules available for properly sealing around various diameters of cables or pipes.
- MCT Lubricant (Tallow) is needed with each frame opening to assist in assembly of the modules within the frame opening.
- Stay plates are used between rows of Tecron modules to provide a secure mechanical system preventing the module from possible pull-out.
- Compression plates, used on top of the module stack and under the compression bolt will compress the assembly to seal around each cable.
- End Packings are fitted in the opening above the compression plate and seal that space with its own compression hardware.
- Special custom frames and frames with banding are available.

Standard Materials

- MCT Frames: Steel, stainless steel and aluminum
- Hardware: Plated Steel, stainless steel and aluminum

Standard Finishes

- MCT Frames:
Steel - Grey Prime Paint
Stainless Steel - none
Aluminum - none

NEC Certifications and Compliances

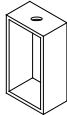
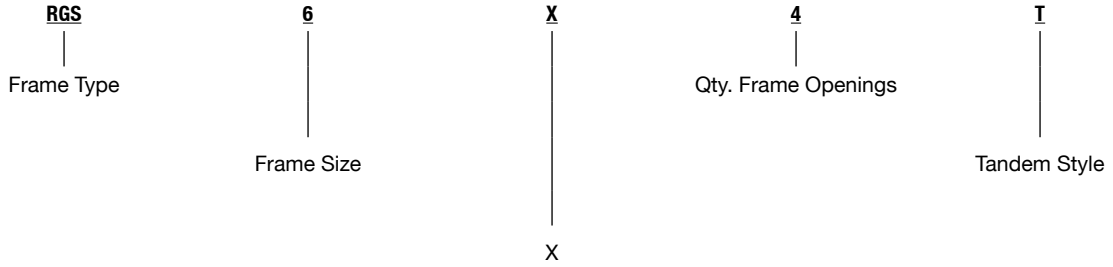
- Underwriters Laboratories Inc. UL 1479 and ASTM E-814, Test method for through penetration fire stops.
- U.S. Navy
- U.S. Coast Guard
- ABS (American Bureau of Shipping)



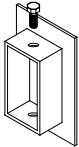
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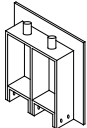
Frame Catalog Number Example



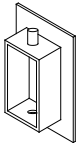
- RGSS – Steel frame for welding into steel plate
- RGAM – Aluminum frame for welding into aluminum plate
- RGSS – Stainless Steel frame for welding stainless steel plate
- RGSO – Same as RGS except w/ knock out bottom



- RGM – Steel frame with flange for bolting to wall or floor
- RGAM – Aluminum frame with flange for bolting to wall or floor
- RGMS – Stainless Steel frame with flange for bolting to wall or floor



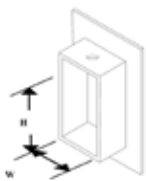
- RGMO – Steel frame with flange for bolting to wall or floor and bolt in bottom
- RGAMO – Aluminum frame with flange for bolting to wall or floor and bolt in bottom
- RGMOSS – Stainless steel frame with flange for bolting to wall or floor and bolt in bottom



- RGB – Steel frame w/ flange and bolt cylinder for casting in place
- RGBSS – Stainless steel frame w/ flange and bolt cylinder for casting in place
- RGBO – Same as RGB except w/ bolt in bottom

Open bottom frame versions are intended for applications where cables are already in place and it allows installation of the frame around the cables. Tandem versions of frames are available (see catalog number example below). Side by side openings are offered in one thru ten openings.

Dimensions in Millimeters (Inches)



Frame Size	"W" Width	"H" Height
2	120 (4.72)	60 (2.36)
4	120 (4.72)	120 (4.72)
6	120 (4.72)	180 (3.15)
8	120 (4.72)	240 (9.45)

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CABLE SEALING SYSTEMS

Steel and Stainless Steel Frames



Dimensions in Millimeters (Inches)

High Dim. "A"	Width Dimensions "B"; Number of frame openings in a row										Catalog Number
	1	2	3	4	5	6	7	8	9	10	
119.9 (4.72)	139.7 (5.50)	270.0 (10.63)	400.1 (15.75)	530.4 (20.88)	660.4 (26.00)	790.7 (31.13)	920.8 (36.25)	1051.1 (41.38)	1181.1 (46.50)	1311.4 (51.63)	RGS-2
178.6 (7.03)	139.7 (5.50)	270.0 (10.63)	400.1 (15.75)	530.4 (20.88)	660.4 (26.00)	790.7 (31.13)	920.8 (36.25)	1051.1 (41.38)	1181.1 (46.50)	1311.4 (51.63)	RGS-4
237.2 (9.34)	139.7 (5.50)	270.0 (10.63)	400.1 (15.75)	530.4 (20.88)	660.4 (26.00)	790.7 (31.13)	920.8 (36.25)	1051.1 (41.38)	1181.1 (46.50)	1311.4 (51.63)	RGS-6
296.2 (11.66)	139.7 (5.50)	270.0 (10.63)	400.1 (15.75)	530.4 (20.88)	660.4 (26.00)	790.7 (31.13)	920.8 (36.25)	1051.1 (41.38)	1181.1 (46.50)	1311.4 (51.63)	RGS-8
Same dimensions as RGS Standard Assembly											RGSO
239.8 (9.44)	260.4 (10.25)	390.7 (15.38)	520.7 (20.50)	651.0 (25.63)	781.1 (30.75)	911.4 (35.88)	1041.4 (41.00)	1171.7 (46.13)	1301.8 (51.25)	1432.1 (56.38)	RGB-2/RGM-2
299.2 (11.78)	260.4 (10.25)	390.7 (15.38)	520.7 (20.50)	651.0 (25.63)	781.1 (30.75)	911.4 (35.88)	1041.4 (41.00)	1171.7 (46.13)	1301.8 (51.25)	1432.1 (56.38)	RGB-4/RGM-4
357.9 (14.09)	260.4 (10.25)	390.7 (15.38)	520.7 (20.50)	651.0 (25.63)	781.1 (30.75)	911.4 (35.88)	1041.4 (41.00)	1171.7 (46.13)	1301.8 (51.25)	1432.1 (56.38)	RGB-6/RGM-6
417.8 (16.44)	260.4 (10.25)	390.7 (15.38)	520.7 (20.50)	651.0 (25.63)	781.1 (30.75)	911.4 (35.88)	1041.4 (41.00)	1171.7 (46.13)	1301.8 (51.25)	1432.1 (56.38)	RGB-8/RGM-8
Same dimensions as RGB Standard Assembly											RGMO, RGBO
239.8 (9.44)	139.7 (5.50)	270.0 (10.63)	400.1 (15.75)	530.4 (20.88)	660.4 (26.00)	790.7 (31.13)	920.8 (36.25)	1051.1 (41.38)	1181.1 (46.50)	1311.4 (51.63)	RGS-2T
407.9 (14.06)	139.7 (5.50)	270.0 (10.63)	400.1 (15.75)	530.4 (20.88)	660.4 (26.00)	790.7 (31.13)	920.8 (36.25)	1051.1 (41.38)	1181.1 (46.50)	1311.4 (51.63)	RGS-4T
474.7 (18.69)	139.7 (5.50)	270.0 (10.63)	400.1 (15.75)	530.4 (20.88)	660.4 (26.00)	790.7 (31.13)	920.8 (36.25)	1051.1 (41.38)	1181.1 (46.50)	1311.4 (51.63)	RGS-6T
592.1 (23.31)	139.7 (5.50)	270.0 (10.63)	400.1 (15.75)	530.4 (20.88)	660.4 (26.00)	790.7 (31.13)	920.8 (36.25)	1051.1 (41.38)	1181.1 (46.50)	1311.4 (51.63)	RGS-8T
Same dimensions as RGS Tandem Assembly											RGSO (Tandem)
357.1 (14.16)	260.4 (10.25)	390.7 (15.38)	520.7 (20.50)	651.0 (25.63)	781.1 (30.75)	911.4 (35.88)	1041.4 (41.00)	1171.7 (46.13)	1301.8 (51.25)	1432.1 (56.38)	RGB-2T/RGM-2T
477.8 (18.81)	260.4 (10.25)	390.7 (15.38)	520.7 (20.50)	651.0 (25.63)	781.1 (30.75)	911.4 (35.88)	1041.4 (41.00)	1171.7 (46.13)	1301.8 (51.25)	1432.1 (56.38)	RGB-4T/RGM-4T
595.4 (23.44)	260.4 (10.25)	390.7 (15.38)	520.7 (20.50)	651.0 (25.63)	781.1 (30.75)	911.4 (35.88)	1041.4 (41.00)	1171.7 (46.13)	1301.8 (51.25)	1432.1 (56.38)	RGB-6T/RGM-6T
712.7 (28.06)	260.4 (10.25)	390.7 (15.38)	520.7 (20.50)	651.0 (25.63)	781.1 (30.75)	911.4 (35.88)	1041.4 (41.00)	1171.7 (46.13)	1301.8 (51.25)	1432.1 (56.38)	RGB-8T/RGM-8T
Same dimensions as RGB Tandem Assembly											RGMO, RGBO (Tandem)
119.9 (4.72)	79.5 (3.13)	Note: 1. Dimensions shown are actual frame dimensions. Allow 1.59 mm (1/16") for cutouts to accept RGS type frames. 2. Frames are constructed of 3.18 mm x 60.33 mm (1/8" x 2-3/8") steel. For each additional frame add 130.3 mm (5.13")									MGS-2
178.6 (7.03)	79.5 (3.13)										MGS-4
237.2 (9.34)	79.5 (3.13)										MGS-6
296.2 (11.66)	79.5 (3.13)										MGS-8

NELSON MCT Cable Transit System Cable Tray Application

Firestop Products Fire Rated, Environmental Cable Sealing Systems

Application

- RGS type frames are shown as an example only.
- Any of the frame types can be used depending on the application.
- Calculations are based on using 6" deep cable trays filled to 40% capacity.
- If the tray size or fill percentages change, the number of frame openings or frame height should change accordingly.



Fittings

CABLE SEALING SYSTEMS

Type of Cable	Width of cable tray — mm (in)					
	152.4 (6)	304.8 (12)	457.2 (18)	609.6 (24)	762.0 (30)	914.4 (36)
Control Cable	RGS-6	RGS-6X2	RGS-6X4	RGS-6X5	RGS-6X6	RGS-6X7
Power Cable	RGS-4	RGS-4X2	RGS-4X4	RGS-4X5	RGS-4X6	RGS-4X7
Mixed	RGS-6	RGS-6X2	RGS-6X4	RGS-6X5	RGS-6X6	RGS-6X7

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Firestop Products Fire Rated, Environmental Cable Sealing Systems

CABLE SEALING SYSTEMS

Aluminum Frames



Dimensions in Millimeters (Inches)

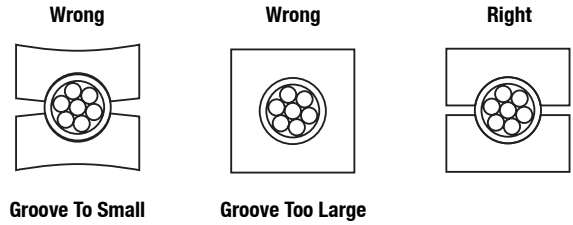
Height Dim. "A"	Width Dimensions "B"										Catalog Number
	Number of frame openings in a row										
	1	2	3	4	5	6	7	8	9	10	
126.2 (4.97)	146.1 (5.75)	279.4 (11.00)	412.8 (16.25)	546.1 (21.50)	679.5 (26.75)	812.8 (32.00)	946.2 (37.25)	1079.5 (42.50)	1212.9 (47.75)	1346.2 (53.00)	RGA-2
184.9 (7.28)	146.1 (5.75)	279.4 (11.00)	412.8 (16.25)	546.1 (21.50)	679.5 (26.75)	812.8 (32.00)	946.2 (37.25)	1079.5 (42.50)	1212.9 (47.75)	1346.2 (53.00)	RGA-4
243.6 (9.59)	146.1 (5.75)	279.4 (11.00)	412.8 (16.25)	546.1 (21.50)	679.5 (26.75)	812.8 (32.00)	946.2 (37.25)	1079.5 (42.50)	1212.9 (47.75)	1346.2 (53.00)	RGA-6
302.5 (11.91)	146.1 (5.75)	279.4 (11.00)	412.8 (16.25)	546.1 (21.50)	679.5 (26.75)	812.8 (32.00)	946.2 (37.25)	1079.5 (42.50)	1212.9 (47.75)	1346.2 (53.00)	RGA-8
Same dimensions as RGS Standard Assembly											RGAO
246.9 (9.72)	266.7 (10.50)	400.1 (15.75)	533.4 (21.00)	666.8 (26.25)	800.1 (31.50)	933.5 (36.75)	1066.8 (42.00)	1200.2 (47.25)	1333.5 (52.50)	1466.9 (57.75)	RGAM-2
305.6 (12.03)	266.7 (10.50)	400.1 (15.75)	533.4 (21.00)	666.8 (26.25)	800.1 (31.50)	933.5 (36.75)	1066.8 (42.00)	1200.2 (47.25)	1333.5 (52.50)	1466.9 (57.75)	RGAM-4
364.2 (14.34)	266.7 (10.50)	400.1 (15.75)	533.4 (21.00)	666.8 (26.25)	800.1 (31.50)	933.5 (36.75)	1066.8 (42.00)	1200.2 (47.25)	1333.5 (52.50)	1466.9 (57.75)	RGAM-6
423.2 (16.66)	266.7 (10.50)	400.1 (15.75)	533.4 (21.00)	666.8 (26.25)	800.1 (31.50)	933.5 (36.75)	1066.8 (42.00)	1200.2 (47.25)	1333.5 (52.50)	1466.9 (57.75)	RGAM-8
Same dimensions as RGB Standard Assembly											RGAMO
252.5 (9.94)	146.1 (5.75)	279.4 (11.00)	412.8 (16.25)	546.1 (21.50)	679.5 (26.75)	812.8 (32.00)	946.2 (37.25)	1079.5 (42.50)	1212.9 (47.75)	1346.2 (53.00)	RGA-2T
369.8 (14.56)	146.1 (5.75)	279.4 (11.00)	412.8 (16.25)	546.1 (21.50)	679.5 (26.75)	812.8 (32.00)	946.2 (37.25)	1079.5 (42.50)	1212.9 (47.75)	1346.2 (53.00)	RGA-4T
487.4 (19.19)	146.1 (5.75)	279.4 (11.00)	412.8 (16.25)	546.1 (21.50)	679.5 (26.75)	812.8 (32.00)	946.2 (37.25)	1079.5 (42.50)	1212.9 (47.75)	1346.2 (53.00)	RGA-6T
604.8 (23.81)	146.1 (5.75)	279.4 (11.00)	412.8 (16.25)	546.1 (21.50)	679.5 (26.75)	812.8 (32.00)	946.2 (37.25)	1079.5 (42.50)	1212.9 (47.75)	1346.2 (53.00)	RGA-8T
Same dimensions as RGS Tandem Assembly											RGAO (Tandem)
373.1 (14.69)	266.7 (10.50)	400.1 (15.75)	533.4 (21.00)	666.8 (26.25)	800.1 (31.50)	933.5 (36.75)	1066.8 (42.00)	1200.2 (47.25)	1333.5 (52.50)	1466.9 (57.75)	RGAM-25
485.1 (19.31)	266.7 (10.50)	400.1 (15.75)	533.4 (21.00)	666.8 (26.25)	800.1 (31.50)	933.5 (36.75)	1066.8 (42.00)	1200.2 (47.25)	1333.5 (52.50)	1466.9 (57.75)	RGAM-4T
608.1 (23.94)	266.7 (10.50)	400.1 (15.75)	533.4 (21.00)	666.8 (26.25)	800.1 (31.50)	933.5 (36.75)	1066.8 (42.00)	1200.2 (47.25)	1333.5 (52.50)	1466.9 (57.75)	RGAM-6T
725.4 (28.56)	266.7 (10.50)	400.1 (15.75)	533.4 (21.00)	666.8 (26.25)	800.1 (31.50)	933.5 (36.75)	1066.8 (42.00)	1200.2 (47.25)	1333.5 (52.50)	1466.9 (57.75)	RGAM-8T
Same dimensions as RGB Tandem Assembly											RGAMO (Tandem)
126.2 (4.97)	85.9 (3.38)	Note: 1. Dimensions shown are actual frame dimensions. Allow 1.59 mm (1/16") for cutouts to accept RGS type frames. 2. Frames are constructed of 3.18 mm x 60.33 mm (1/8" x 2-3/8") steel.									MGA-2
184.9 (7.28)	85.9 (3.38)										MGA-4
243.6 (9.59)	85.9 (3.38)	For each additional frame add 133.4 mm (5.25")									MGA-6
302.5 (11.91)	85.9 (3.38)										MGA-8

NELSON MCT Cable Transit System

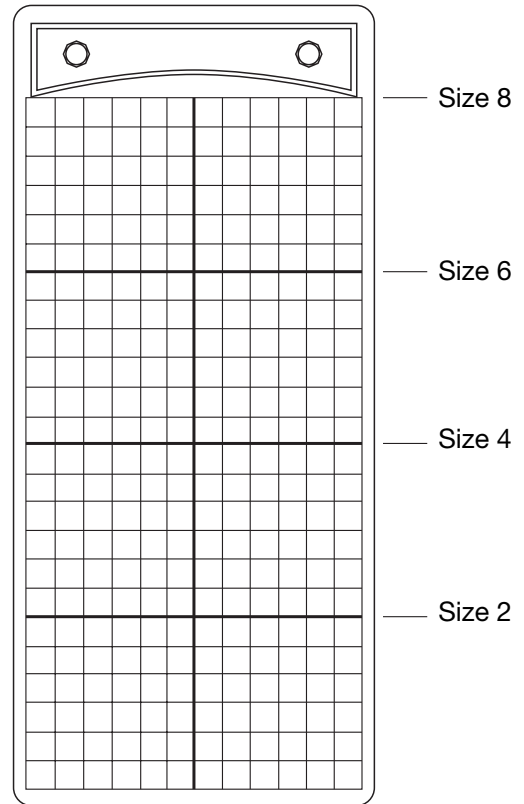
Firestop Products Fire Rated, Environmental Cable Sealing Systems

Module Selection Chart

Cable Dia. Inches	Tecron Module Catalog Number	Cable Dia. Inches	Tecron Module Catalog Number
Blank	15/0	Blank	40/0
.157	15/4	.866	40/22
.197	15/5	.945	40/24
.236	15/6	1.024	40/26
.276	15/7	1.102	40/28
.315	15/8	1.181	40/30
.354	15/9	1.260	40/32
.394	15/10	1.339	40/34
.433	15/11	1.378	40/35
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Blank	20/0	Blank	60/0
.157	20/4	1.181	60/30
.197	20/5	1.260	60/32
.236	20/6	1.339	60/34
.276	20/7	1.417	60/36
.315	20/8	1.496	60/38
.354	20/9	1.575	60/40
.394	20/10	1.654	60/42
.433	20/11	1.732	60/44
.472	20/12	1.811	60/46
.512	20/13	1.890	60/48
.551	20/14	1.969	60/50
.591	20/15	2.047	60/52
.630	20/16	2.126	60/54
Blank	30/0	2.165	60/55
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.472	30/12	Blank	90/0
.512	30/13	1.969	90/50
.551	30/14	2.165	90/55
.591	30/15	2.362	90/60
.630	30/16	2.559	90/65
.669	30/17	2.756	90/70
.709	30/18	Blank	120/0
.748	30/19	2.953	120/75
.787	30/20	3.150	120/80
.827	30/21	3.346	120/85
.866	30/22	3.543	120/90
.906	30/23	3.740	120/95
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.945	30/24		
1.024	30/26		



Select the module having an inside diameter one size smaller than the diameter of the cable.



Each grid square is 10 mm x 10 mm (0.39" x 0.39")

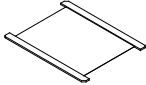
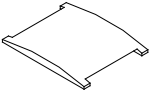
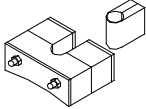
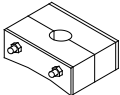
NELSON MPS Multi-Plug System

Firestop Products

Fittings

CABLE SEALING SYSTEMS

Accessories

	Description	Catalog Number
	Standard steel stay plate	AA0130U
	Stay plate aluminum	AA0127
	Stay plate stainless steel	AA0130SS
	Compression Plate plated cast iron	AA0126112
	Compression Plate aluminum	AA0126411
	Compression Plate stainless steel	AA0126511
	End Packing Special (one side installation)	AA0147
	End Packing Special stainless steel hdwe	AA0147SS
	End Packing standard	AA0148
	End Packing stainless steel hdwe	AA0148SS
	Replacement Compression Bolt Stainless	AA0133
	Replacement Plug stainless steel	AA0137
	Tallow Lubricant Tube	AA0099

AA0126112 Compression Plate

