# **3M Cable Stackers** SI-1 and SIFS-1



### **Data Sheet**

## January 2008

Application	The 3M <sup>TM</sup> Cable S intended for use w installation of multip raceways. SIFS-1 The cable stackers and the Canadian El	The 3M <sup>TM</sup> Cable Stacker SI-1 and 3M <sup>TM</sup> Furring Strip Cable Stacker SIFS-1 are intended for use with NM and UF cables on framing members. SI-1 allows the installation of multiple NM or UF cables on one side of a 2 x 4 in vertical or horizontal raceways. SIFS-1 allows multiple cable installations on one side of a furring strip. The cable stackers address Article 300-4 (d) of the National Electrical Code (NEC) and the Canadian Electrical Code, Part 1, Section 12-516.			
Construction	Material	Material		Polypropylene, UL 94 HB	
	Color		Natural White		
	Application Tempe	ratures:	$10^{\circ}$ to $120^{\circ}$ F (- $12^{\circ}$	to 49°C)	
	<b>Operating Tempera</b>	atures:	$-40^{\circ}$ to $194^{\circ}$ F ( $-40^{\circ}$	° to 90°C)	
د لينظر SI	I-1		SIF		
Cable Hardware Weight: 0.03 lbs. (13 grams)			Weight: 0.02 lbs. (10 grams)		
Wire Range/Capacity: UF or NM Cable – Flat			Wire Range/Capacity: UF or NM Cable – Flat		
Quantity	Size	<u>.</u>	Quantity	Size	
1-8	14 - 2 w./g**		1-3	14 - 2 w/g	
1-4	12 - 2 W/g 10 - 2 w/g		1-3	12 - 2 w/g	
1-4	14 - 3 w/g				
1 0	10.0.1			Cable - Rouliu	

1 – 2	12 - 3 w/g			
UF or NM Cable - Round				
1 – 2	14 - w/g			
1 – 2	12 - 3 w/g			
Telephone, Signal, Cables, etc.				
1 – 10	RG -59			
1 – 10	RG - 8			
1 – 12	Cat - 5			

UL File E315730

\*\*See Table on next page

Wire Range/Capacity: UF or NM Cable – Flat				
Quantity	Size			
1 – 3	14 - 2 w/g			
1 – 3	12 - 2 w/g			
1 – 3	10 - 2 w/g			
UF or NM Cable - Round				
1 – 3	14 - 3 w/g			
1	12 - 3 w/g			
1	10 - 3 w/g			
Telephone, Signal, Cables, etc.				
1 – 6	RG – 59			
1 - 6	RG – 8			
1 – 6	Cat – 5			



#### **Test Method**

- Two 3M<sup>TM</sup> Cable Stackers SI-1 were mounted 4 feet apart on standard construction wood 2 x 4's.
- Copper conductor NM cables were installed with thermocouples on the black circuit conductors. Each was located within the cable stacker.
- Black and white circuit conductors for each cable size were connected in series.
- Tests were conducted with the cable assemblies in both the horizontal and vertical positions.

NW Flat Cable	Current* (Amps)	Ambient "C"	Average Stabilized Temp. °C
8 ea 14 - 2 w/g	16.2	24.7	57.1**
4 ea 14 - 2 w/g	16.2	25.1	44.4
4 ea 14 - 2 w/g	21.6	23.8	42.9
4 ea 10 - 2 w/g	32.4	24.0	50.7

**Temperature Rise Test** 

\*Multiplication Factor of 1.08 from Table 310-16, 60°C column, 1990 NEC \*\*If 5 to 8 # 14-2 w/g NM cables are installed in a SI-1 cable stacker, ampacity Derating should be considered.





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