

Note: Available in standard 100 ft and 300 ft rolls, please specify when ordering. Contact 3M for availability of additional conductor counts and/or custom roll lengths.

TABL	E	1	

DIMENSION CHART

NUMBER OF CONDUCTORS	3m part Number	DIMENSION 'A' ± AS NOTED	DIMENSION 'B' (see note 2)
6	HF539/06	0.300 <sup>vv</sup> ±0.010 <sup>vv</sup>	0.250 <sup>**</sup> ±0.007 <sup>**</sup>
9	HF539/09	0.450 <sup>,,,</sup> ±0.010 <sup>,,</sup>	0.400 <sup>**</sup> ±0.007 <sup>**</sup>
10	HF539/10	0.500 <sup>,,,</sup> ±0.010 <sup>,,,</sup>	0.450°°±0.007°°
14	HF539/14	$\circ$ , $700$ $\%$ $\pm$ $\circ$ , $010$ $\%$	0.650°°±0.007°°
15	HF539/15	0.750 <sup>,,,</sup> ±0.010 <sup>,,,</sup>	0 . 700 °° ±0 . 007 °°
16	HF539/16	0.800 <sup>,,</sup> ±0.015 <sup>,,</sup>	0.750"±0.011"
20	HF539/20	1 .000 <sup>**</sup> ±0.015 <sup>**</sup>	0.950 <sup>,,</sup> ±0.011 <sup>,,</sup>
24	HF539/24	1 .200 ** ±0.015**	1 . 150 °° ±0.011 °°
25	HF539/25	1.250 <sup>,,</sup> ±0.015 <sup>,,</sup>	1 .200 <sup>vv</sup> ±0.011 <sup>vv</sup>
26	HF539/26	1.300 <sup>,,</sup> ±0.015 <sup>,,</sup>	1.250 <sup>**</sup> ±0.011 <sup>**</sup>
30	HF539/30	1.500 <sup>,,</sup> ±0.020 <sup>,,</sup>	1.450 <sup>**</sup> ±0.015 <sup>**</sup>
34	HF539/34	1 .700 ** ±0.020 **	1.650°°±0.015°°
36	HF539/36	1 .800 ** ±0.020 **	1.750°°±0.015°°
37	HF539/37	1.850 <sup>**</sup> ±0.020 <sup>**</sup>	1.800 <sup>,,</sup> ±0.015 <sup>,,</sup>
40	HF539/40	2.000 <sup>vv</sup> ±0.020 <sup>vv</sup>	1.950 <sup>°°</sup> ±0.015 <sup>°°</sup>
50	HF539/50	2.500 <sup>**</sup> ±0.020 <sup>**</sup>	2.450"±0.015"
60	HF539/60	3.000 <sup>,,</sup> ±0.020 <sup>,,</sup>	2.950 <sup>°°</sup> ±0.015 <sup>°°</sup>
64	HF539/64	3.200 <sup>,,</sup> ±0.020 <sup>,,</sup>	3.150"±0.015"

INSULATION CHARACTER CAPACITANC INDUCTANCE PROPAGATIC VELOCTY OF

## 3M<sup>™</sup> ELECTRONIC SOLUTIONS DIVISION INTERCONNECT SOLUTIONS http://www.3mconnectors.com

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## "PRINTING ILLUSTRATION" ₩ AWM 21682 105°C 300V HOR <sup>®</sup> AWM 1A 105° 150V FT2 EU<50V

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BALANCED IS MEASURED WITHIN A PAIR.

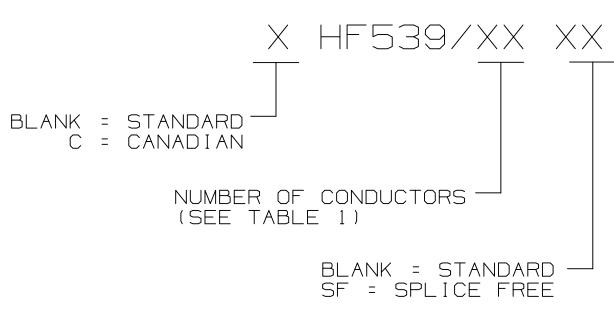
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00/. NOTE: UNBALANCED IS MEASURED BETWEEN GROUND-SIGNAL-GROUND CONDUCTORS.

)n resistance	PRIMARY CABLE >1 >	X 10 <sup>10</sup> Λ/10 FT [3 m]
	UNBALANCED	BALANCED
RISTIC IMPEDANCE	100 Ω	168 Ω
ICE	15.0 pf/ft [49.2 pf/m]	8.4 pf/ft [27.7 pf/m]
)E	0.15 µH/ft [0.49 µH/m]	0.24 µH/ft [0.79 µH/m]
ON DELAY	1.51 ns/ft [4.95 ns/m]	1.42 ns/ft [4.66 ns/m]
)F PROPAGATION	68%	72%

ELECTRICAL CHARACTERISTICS VOLTAGE RATING USA: 300V, CANADA: 150V, EU: 50V 

TABLE 2



RADIUS	MINIMUM C
1/2**	0.4 MILLI
3/4 **	5 MILLION
1 3/4 **	10 MILLIO
NOTE: REPRESENTS CYCLES AT DATE OF ADDITIONAL TESTIN CONSTRUCTION AND TO 3319 SERIES CA TO 100 MILLION C SEE TS-0732. CON UP-TO-DATE INFORM	F PUBLICATION, NG IS ONGOING, MATERIAL IS S ABLE WHICH IS YCLES AT 7/8" TACT 3M FOR TH

ROLLING FLEX CYCLES PER EIA-364-41

	2	1				
	NOTES					
1 .	POLYOLEFIN (F B) CONDUCTORS: 2	LATION: HALOGEN FREE PO). 28 AWG, 19 X 40 AWG 079), TINNED STRANDED				
2.	ROHS COMPLIANT. S INFORMATION APPE	SEE THE REGULATORY NDIX (RIA) IN THE "RoHS ION OF WWW.3MCONNECTORS.COM NFORMATION				
	UL FILE NO: E4276 UL STYLE NO: 2168					
3.	STANDARD: NONE Canadian: see '	PRINTING ILLUSTRATION" VIEW BLUE MARK ON EDGES NUMBER 1.				
4.	THE SURFACE DEF IS NOT REQUIRED	FINED BY THE "ZIP" PROCESS D TO BE BLUE.				
5.	ENVIRONMENTAL: TEMP RATING: -4 Flamability ra <sup>-</sup>	40°C TO 105°C Fing: Horizontal.				
6.	1) NO HALOGEN C INTENTIONALL USED IN THE THE PRODUCT. 2) ANY IMPURITI 900 ppm BROM CHLORINE AND TOTAL BROMIN ARE THE LEVE INDUSTRY STA BOARDS, SUCH ELECTROTECHN 61249-2-21 S REPRESENTS 3 WHICH MAY BE	DEFINED AS BOTH: OMPOUNDS THAT ARE Y ADDED TO THE PRODUCT OR MANUFACTURING PROCESS FOR ES PRESENT ARE LESS THAN INE, LESS THAN 900 ppm /OR LESS THAN 1500 ppm E AND CHLORINE. tHE LATTER LS SET FORTH IN CERTIAN NDARDS FOR PRINTED CIRCUIT AS THE INTERNATIONAL ICAL COMMISSION (IEC) TANDARD. THIS INFORMATION M/S KNOWLEDGE AND BELIEF BASED IN WHOLE OR IN PART ON PROVIDED BY 3RD PARTY 3M.				

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		PRODUCTION RELEASE		N RELEASE					
DESIGN REFERENCE NEXT	ASSEMBLY	REV	ECO	IS	SUE DATE AN	D DESCRIPTION	DRFT	CHKD	
ACCESS CODES		DRFT CAS	TIGLIONE	D N	NOV 05,2012	MFG	DATE		
		снкр		D	ATE	R. EDWARDS	NOV 05	5,2012	
DIVISION Interconnect Solutions	DIVISION CODE		ЭМ СТАНК	Center	-	3M COPYRIGHT <b>2013</b> and the information it (	antaina		
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THIRD ANGLE PROJECTION	INCHES .0 ± .1 .00 ± .05 .000 ± .010 .0000 ±		IED I l	_ · · ·	.050	K LIFE )'', 28	· ·		
INTERPRET PER ASME Y14.5 - 1994	MILLIMETERS 0 ± <b>2.5</b>				HF 5	539			
MAX SURFACE ROUGHNESS	.0 ± 1.3 .00 ± .25 .000 ±	NUM	IBER SIZE	78		)-2565-	9	REV. A	
MARKED ONLY	ANGLES	MOD	EL		DE	ET. Ists □yes⊠no S	HT 1	OF 1	Ļ