

HES TERMINAL FAMILY	WIRE GAGE (mm ²)	TEMPERATURE RISE CREATED BY					
		CONTINUOUS CURRENT (Amps) - 80% De-RATED					
		20C RISE	30C RISE	40C RISE	55C RISE	60C RISE	70C RISE
1.0 mm (SIZE 20) TERMINALS	0.35	7	8	9.5	11.2	11.8	12.6
	0.50	7.6	9.6	11.5	13.6	14.4	15.1
	0.80	9.8	12	14	16.8	17.5	19
	1.00	10.5	13	15.2	18.4	19.2	20.5
1.6 mm (SIZE 16) TERMINALS	0.50	8	9.6	11.4	13.6	14.4	15.4
	0.80	9.6	11.2	13.6	16	16.8	18
	1.00	10.6	13	15.3	18.2	19.2	20.6
	2.00	13.4	16.6	19.6	23.2	24.8	26.4
2.4 mm (SIZE 12) TERMINALS	3.00	16	20	23.2	27.2	28.8	X
	1.00	X	15.1	17.8	20.8	22	24
	2.00	15.4	19.4	23.2	27.2	28.1	30.3
	3.00	19.8	23.2	26.2	31.2	32.5	35.5
	5.00	24	29.8	35.2	41.5	44	47.2

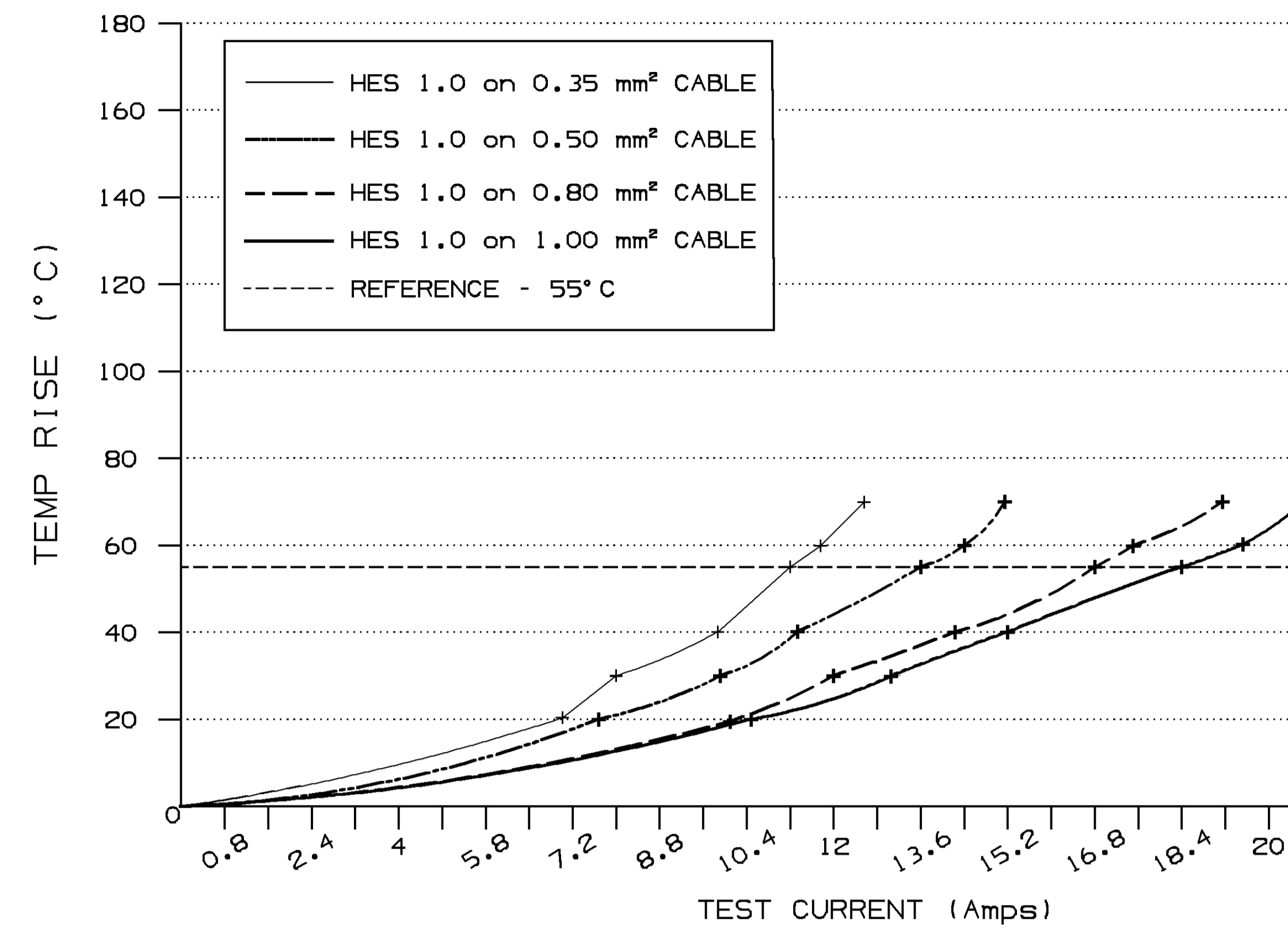
TOTAL TEMPERATURE SHOULD ≤ 125° C
TOTAL TEMPERATURE = AMBIENT (APPLICATION) TEMP + T - RISE

FEMALE PN's		MALE PN's		SIZE	RECOMMENDED WIRE GAGE (mm ²)	INSULATION TYPE
NICKEL	GOLD	NICKEL	GOLD			
13711546	13711547	13654423	13654424	1.0	0.35 - 0.50	TXL
13654421	13654422	13711542	13711543	1.0	0.35 - 0.50	G/SXL
13711548	13711549	13711544	13711545	1.0	0.75 - 1.00	TXL
13663727	13663728	13663723	13663724	1.0	0.75 - 1.00	G/SXL
13697414	13697417	13697408	13697411	1.6	0.50 - 0.80	TXL
13663718	13690835	13663715	13690838	1.6	0.50 - 0.80	G/SXL
13697415	13697418	13697409	13697412	1.6	1.00 - 1.50	TXL
13663719	13690836	13663716	13690839	1.6	1.00 - 1.50	G/SXL
13697416	13697419	13667410	13697413	1.6	2.00 - 3.00	TXL
13663720	13690837	13663717	13690840	1.6	2.00 - 3.00	G/SXL
13783287	13783295	13783263	13783273	2.4	0.75 - 1.00	TXL
13783288	13783296	13783264	13783276	2.4	0.75 - 1.00	G/SXL
13783289	13783297	13783265	13783277	2.4	1.50 - 2.50	TXL
13783290	13783298	13783266	13783280	2.4	1.50 - 2.50	G/SXL
13783291	13783299	13783267	13783282	2.4	2.00 - 3.00	TXL
13783292	13783300	13783268	13783283	2.4	2.00 - 3.00	G/SXL
13783293	13783301	13783269	13783284	2.4	4.00 - 6.00	TXL

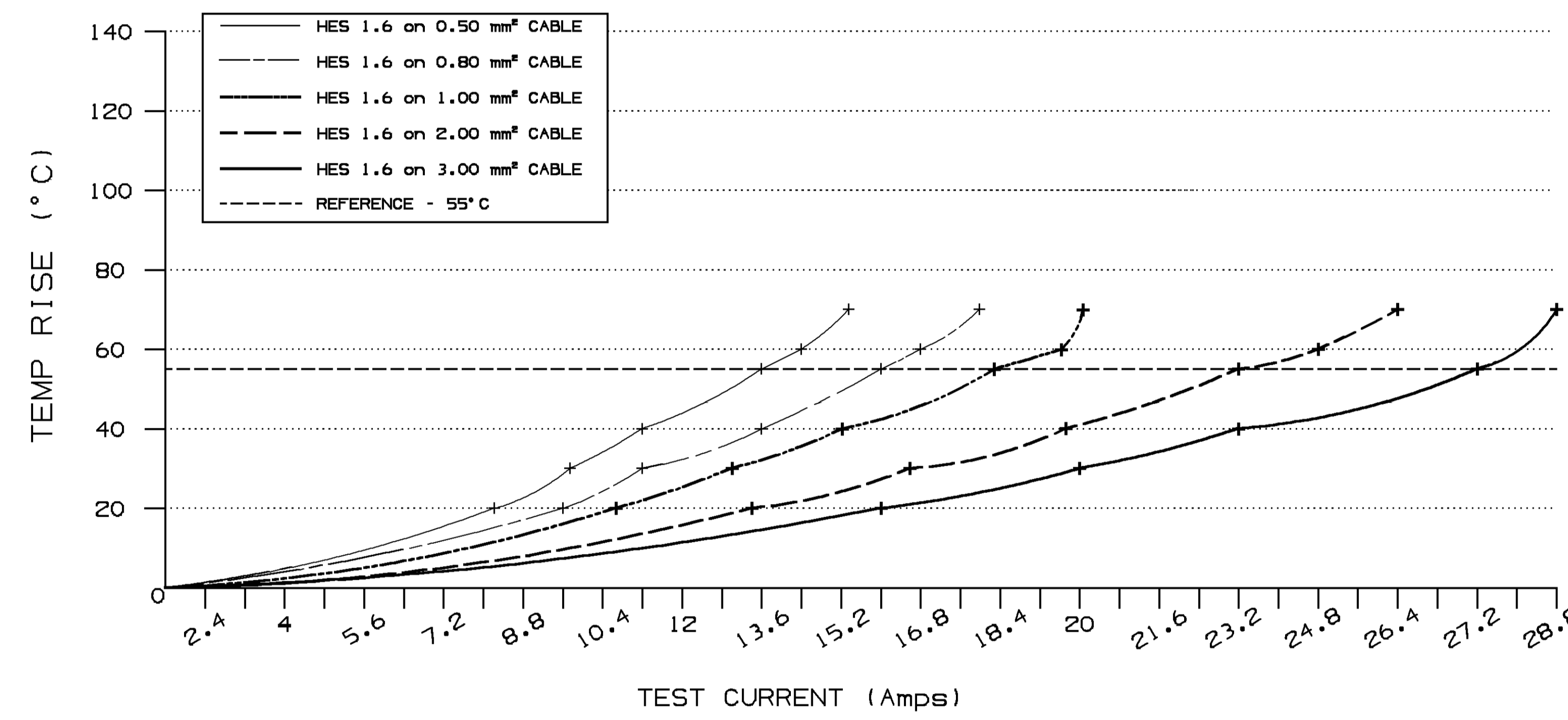
NOTES

- T-RISE CHARTS SHOULD BE USED AS A TOOL WHEN SELECTING HES TERMINALS FOR VARIOUS CURRENT LOADS AND APPLICATIONS.
DELPHI RECOMMENDS MEASURING TERMINAL TEMPERATURES IN THE ACTUAL APPLICATION TO VERIFY ACCEPTABLE T-RISE.
- PLEASE CONTACT DCS CUSTOMER SERVICE FOR RECOMMENDED CRIMP DIMENSIONS FOR VARIOUS CABLE SPECIFICATIONS.
- ALL HES TERMINALS HAVE BEEN CRIMP VALIDATED TO SAE AND DIN CABLE SPECIFICATIONS

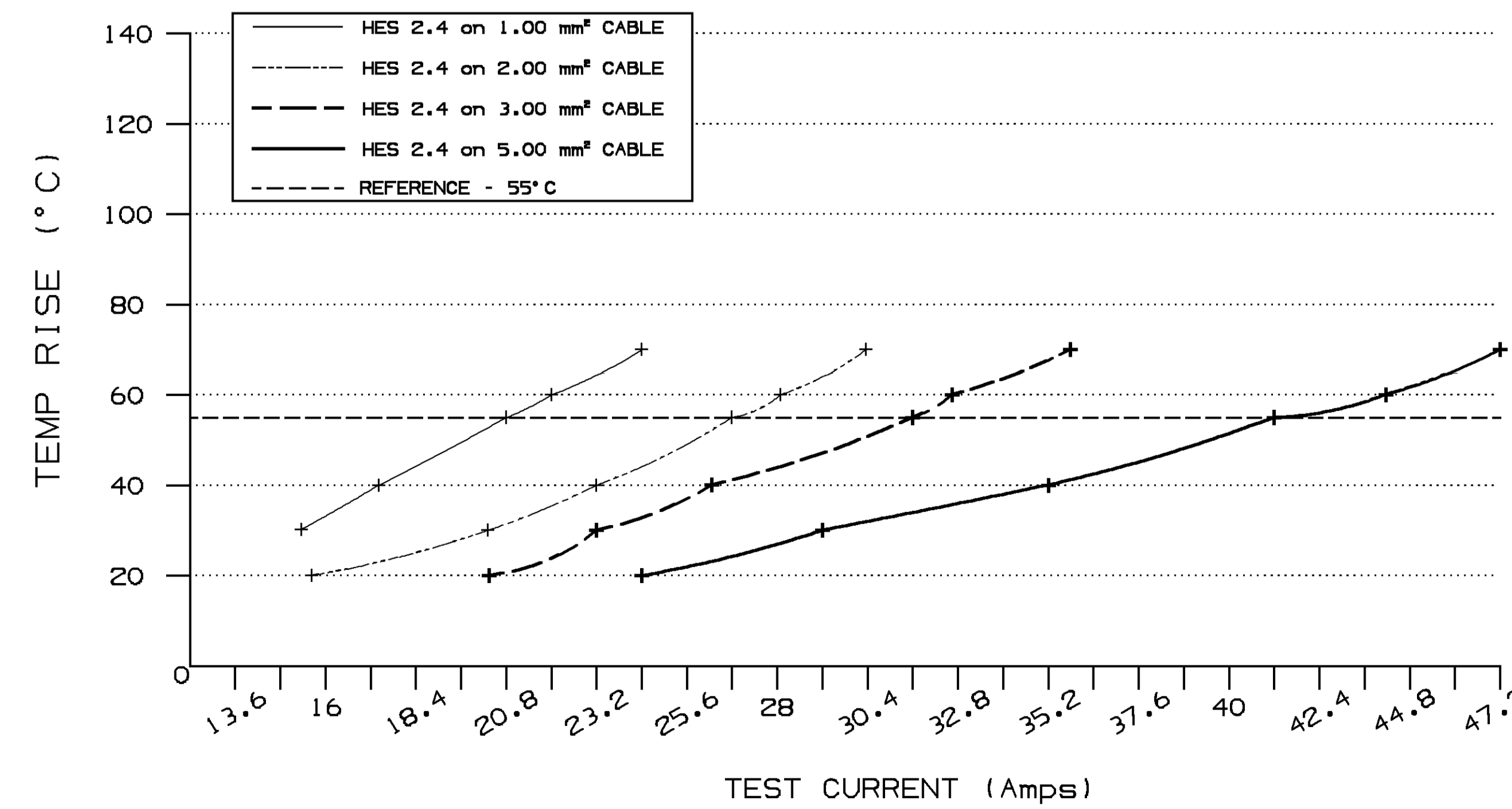
T - RISE CURVE
HES 1.0 TERMINAL
80% De-RATE



T - RISE CURVE
HES 1.6 TERMINAL
80% De-RATE



T - RISE CURVE
HES 2.4 TERMINAL
80% De-RATE



DELPHI
DELPHI PACKARD ELECTRICAL/ELECTRONIC ARCHITECTURE
WARREN, OH

APPROVED: DAMIAN CERRERO	DATE: 060C11
APPROVED: PAUL G. DEPOMPEI	DATE: 100C11
PUBLISHED DATE: 13FE12	
DRAWING NAME: TAXI TERM HES UNKN	
DRAWING NUMBER: 13922721	

UNLESS OTHERWISE SPECIFIED
WHEN APPLICABLE, EQUIVALENT PART NUMBERS MAY BE SUBSTITUTED FOR ANY OF THE PART NUMBERS SHOWN IN THE CHARTS ON THIS DRAWING.
* THE VALUES REPRESENT THE CAVITY CAPABILITIES. THE ACTUAL TERMINAL CRIMP DIMENSIONS MUST BE LESS THAN THE VALUES SHOWN.