

THERM-S-145 Single Core



THERM-S-145 is a special halogen-free, +145° C, single core with increased heat resistance. Mainly used for the internal wiring of lighting fixtures, heaters, electrical machinery, switching systems and distributors in plant equipment and machinery. Suitable for installation on, in or beneath plaster, in closed installation ducts, in traffic systems and outdoor applications. **THERM-S-145** cables have an extremely long-time resistance to temperature and is known among the best halogen-free and flame retardant products in the world. The electron beam cross-linked insulation is resistant to oils and weathering, has good abrasion and notch resistance, resistance to melting and soldering temperatures, UV and ozone resistant and low development of smoke and fumes.



Construction:

- Fine tinned copper strands
- Strands to VDE-0295 Class-5, IEC 60228 Cl-5
- Electron beam cross-linked polyolefin insulation
- Cores to VDE-0293 colors on chart
- **Extremely oil, chemical and ozone resistant**
- Flame retardant: **IEC 60332.3**
- Insulation resistance: 200 MΩ x km

Technical:

- Working voltage: 300/500v (24-17 AWG)
- Working voltage: 450/750v (16 & Larger)
- Protected voltage: 600/1kv
- Test voltage: 3500 volts
- Flexing Radius: 12.5 x Ø
- Static radius: 4 x Ø
- Flexing temp: -35° C to +120° C
- Static temp: -45° C to +145° C

Approvals:

- VDE-0245, 0250, 0281 & 0282
- Halogen-free to IEC 60754-1
- Low smoke to IEC 60754-2
- Smoke density to IEC61034-1
- CE Low Voltage Directive 73/23/EEC & 93/68/EEC
- ROHS compliant

PART NUMBER	CORES	NOMINAL OD	CU LBS/MFT	WT LBS/MFT
24 AWG (14/34) 0,25mm2 66024**	1	.063" / 1.6mm	1	3
22 AWG (19/34) 0,33mm2 66022**	1	.067" / 1.7mm	2	4
20 AWG (16/32) 0,50mm2 66020**	1	.075" / 1.9mm	3	5
18 AWG (24/32) 0,75mm2 66018**	1	.087" / 2.2mm	5	7
17 AWG (32/32) 1,00mm2 66017**	1	.098" / 2.5mm	7	9
16 AWG (30/30) 1,50mm2 66016**	1	.114" / 2.9mm	9	13
14 AWG (50/30) 2,50mm2 66014**	1	.138" / 3.5mm	16	20
12 AWG (56/28) 4,0mm2 66012**	1	.169" / 4.3mm	25	32
10 AWG (84/28) 6,0mm2 66010**	1	.213" / 5.4mm	39	48
8 AWG (80/26) 10,0mm2 66008**	1	.264" / 6.7mm	64	80
6 AWG (128/26) 16,0mm2 66006**	1	.331" / 8.4mm	103	122
4 AWG (200/26) 25,0mm2 66004**	1	.402" / 10.2mm	161	182
2 AWG (280/26) 35,0mm2 66002**	1	.457" / 11.6mm	225	249
1 AWG (400/26) 50,0mm2 66001**	1	.539" / 13.7mm	322	355
2/0 AWG (356/24) 70,0mm2 66021**	1	.622" / 15.8mm	451	490
3/0 AWG (485/24) 95,0mm2 66031**	1	.717" / 18.2mm	602	647
4/0 AWG (614/24) 120,0mm2 66041**	1	.795" / 20.2mm	773	828
300 MCM (765/24) 150,0mm2 66030**	1	.870" / 22.1mm	966	1022
350 MCM (944/24) 185,0mm2 66035**	1	.976" / 24.8mm	1114	1241
500 MCM (1225/24) 240,0mm2 66050**	1	1.091" / 27.7mm	1408	1631

Color Code Chart

- 00 - Green/Yellow
- 01 - Black
- 02 - Blue (RAL5015)
- 03 - Brown
- 04 - Red
- 05 - White
- 06 - Gray
- 07 - Violet
- 08 - Pink
- 09 - Orange
- 11 - Yellow
- 12 - Green
- 13 - Beige
- 14 - Dark Blue

Insert a 2-digit color code from the Color Code Chart for the ** found at the end of the proper part number.

i.e. - 6601204 - THERM-S-145, 12 AWG (4,00mm2) Red