

OLFLEX® HEAT 145 Series

(Formerly LAPPTHERM® 145/Singles/+C)

High Flame Retardant and Temperature Resistant Cable



OLFLEX® HEAT 145 series are halogen-free cables with high chemical and heat resistance. This series is available as a single conductor, multi-conductor and shielded multi-conductor cable.

Recommended Applications:

Lighting equipment, Heating appliances, Electrical machines, Switch gear cabinets and other higher temperature and outdoor applications

Application Advantage:

- Resistant to humidity, ozone and UV rays
- High flame retardancy FR-03
- halogen-free & abrasion resistant
- DNV approval for single conductor version
- GL (Germanischer Lloyd) approved
- Fine stranding for improved flexibility

OLFLEX® HEAT 145 SC Construction:

Finely stranded tinned copper conductors; halogen-free cross-linked polyolefin insulation



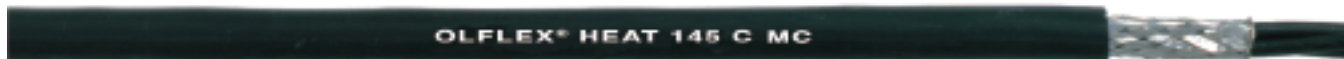
OLFLEX® HEAT 145 MC Construction:

Finely stranded tinned copper conductors; halogen-free cross-linked polyolefin insulation; black halogen-free cross linked polyolefin outer jacket.



OLFLEX® HEAT 145 C MC Construction:

Finely stranded tinned copper conductors; halogen-free cross-linked polyolefin insulation; tinned copper braided shield; black halogen-free cross-linked polyolefin outer jacket.



Cable Attributes, See Page 653		Availability:		Complete the installation with:	
Oil Resistance: OR-01	Flame Resistance: FR-03	Standard put-ups are 328ft, 656ft, 984ft, 1640ft, and 3280ft. Bulk reels can be cut to length.	SKINTOP® Strain Relief: Page 486	EPIC® Connectors: Page 251	
Motion Type: FL-01	Mechanical Properties: MP-01		OLFLEX® Tubing: Page 546	SKINTOP® DIX Page 524	

Technical Data:

Minimum Bending Radius - for installation: 4 x cable diameter - for shielded: 5 x cable diameter	Color Code: LAPPTHERM® SC: 000 = GN/YW, 001 = Black, 002 = Blue, 003 = Brown, 005 = Yellow, 006 = Green, 007 = Violet, 009 = Orange, 104 = Red, 105 = White, 106 = Gray, 114 = Dk. Blue
Temperature Range: short term: -55°C to +125°C +145°C	LAPPTHERM® 145 MC: - up to 5 conductors: VDE 0293-308, Chart 6, Page 673 - 6 or more conductors: Black with white numbers plus a green/yellow ground
Nominal Voltage: ≤ 1.00 mm²: 300/500V ≥ 1.50 mm²: 450/750V	LAPPTHERM® 145 C MC: Black with white numbers plus a green/yellow ground
Test Voltage: 3500V	Approvals: Based on VDE specifications
Conductor Stranding: Fine Wire per VDE 0295, Class 5, IEC 228 Cl.5 from 0.5 mm²	

OLFLEX® HEAT 145 Series

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High Flame Retardant and Temperature Resistant Cable



OLFLEX® HEAT 145 SC: Highly Flame Retardant and Temperature Resistant Single Conductor

Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km
24 AWG (0.25 mm ²)							4 AWG (25 mm ²)						
0181...	1	.063	1.6	2	3	5	0191...	1	.378	9.6	161	195	290
20 AWG (0.50 mm ²)							2 AWG (35 mm ²)						
0182...	1	.075	1.9	3	5	8	0192...	1	.461	11.7	226	269	400
19 AWG (0.75 mm ²)							1 AWG (50 mm ²)						
0183...	1	.087	2.2	5	7	11	0193...	1	.512	13.0	323	383	570
18 AWG (1.00 mm ²)							2/0 AWG (70 mm ²)						
0184...	1	.098	2.5	6	9	14	0194...	1	.591	15.0	452	538	800
16 AWG (1.50 mm ²)							3/0 AWG (95 mm ²)						
0185...	1	.118	3.0	10	14	21	0195...	1	.681	17.3	613	699	1040
14 AWG (2.50 mm ²)							4/0 AWG (120 mm ²)						
0186...	1	.146	3.7	16	22	33	0196...	1	.756	19.2	774	880	1310
12 AWG (4 mm ²)							300 KCMIL (150 mm ²)						
0187...	1	.165	4.2	26	33	49	0197...	1	.843	21.4	968	1102	1640
10 AWG (6 mm ²)							350 KCMIL (185 mm ²)						
0188...	1	.189	4.8	39	46	69	0198...	1	.929	23.6	1193	1377	2050
8 AWG (10 mm ²)							500 KCMIL (240 mm ²)						
0189...	1	.248	6.3	65	81	120	0199...	1	1.051	26.7	1548	1760	2620
6 AWG (16 mm ²)													
0190...	1	.287	7.3	103	121	180							

000 = GN/YW, 001 = Black, 002 = Blue, 003 = Brown, 005 = Yellow, 006 = Green, 007 = Violet, 009 = Orange, 104 = Red, 105 = White, 106 = Gray, 114 = Dk. Blue

OLFLEX® HEAT 145 MC: Highly Flame Retardant and Temperature Resistant Cable

Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km
18 AWG (1.00 mm ²)							0026833	16	.661	16.8	155	304	452
0026815	2	.260	6.6	13	34	50	0026837	25	.854	21.7	242	472	702
0026816	3	.276	7.0	19	45	67	14 AWG (2.50 mm ²)						
00268173	4	.303	7.7	26	58	87	0026838	2	.358	9.1	32	69	102
00268183	5	.331	8.4	32	72	107	0026839	3	.390	9.9	48	97	145
0026819	7	.402	10.2	45	102	152	00268403	4	.429	10.9	65	127	189
16 AWG (1.50 mm ²)							00268413	5	.480	12.2	81	158	235
0026825	2	.307	7.8	19	48	71	0026842	7	.575	14.6	113	231	344
0026826	3	.327	8.3	29	65	96	12 AWG (4 mm ²)						
00268273	4	.358	9.1	39	83	123	00268503	4	.504	12.8	103	180	268
00268293	5	.398	10.1	48	105	156	00268513	5	.559	14.2	129	224	334
0026830	7	.476	12.1	68	151	224	10 AWG (6 mm ²)						
0026831	10	.591	15.0	97	211	314	00268563	5	.622	15.8	194	332	494
0026832	12	.591	15.0	116	232	346							

OLFLEX® HEAT 145 C MC: Shielded Highly Flame Retardant and Temperature Resistant Cable

Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km	Part Number	Number of Conductors includes ground	Nominal Outer Diameter inches	mm	Copper Weight lbs/mft	Approx. Weight lbs/mft	kg/km
18 AWG (1.00 mm ²)							14 AWG (2.50 mm ²)						
0026916	2	.283	7.2	31	60	90	0026932	2	.390	9.9	65	105	157
0026917	3	.303	7.7	38	70	104	0026933	3	.413	10.5	98	133	198
0026918	4	.327	8.3	44	87	129	0026934	4	.453	11.5	101	159	236
0026919	5	.354	9.0	64	103	153	0026935	5	.504	12.8	134	193	287
0026920	7	.429	10.9	73	142	211	0026936	7	.610	15.5	158	289	430
16 AWG (1.50 mm ²)							12 AWG (4 mm ²)						
0026924	2	.331	8.4	39	77	114	0026938	4	.520	13.2	148	213	317
0026925	3	.350	8.9	48	89	132	0026939	5	.571	14.5	174	253	376
0026926	4	.390	9.9	58	110	163							
0026927	5	.421	10.7	70	134	200							
0026928	7	.500	12.7	91	183	273							