XLPE Wires

RAD 125 UL 3173

Technical data

- Halogen-free single core with increased heat resistance according to UL Style 3173
- **Temperature range**
  -35 ℃ to + 125 ℃
- **Nominal voltage** 600 V
- **Test voltage** 3500 V
- **Minimum bending radius**
  flexing approx. 12.5 x cable diameter
  fixed installation approx. 4 x cable diameter

Properties

- Halogen-free
- Lower propagation of fire
- Low development of smoke and fumes
- Good abrasion and notch resistance
- Good resistance to oils and weathering
- Resistant to UV radiation and ozone
- Resistant to soldering temperatures

Cable structure

- Conductor: 26 AWG - 9 AWG solid or stranded round, tinned or bare copper.
- Insulation: XLPE

Application

RAD 125 wires are the collection for our irradiation cross-linked PE (XLPE) hook- up wires. They have the heat-resistant features with rated temperature at 125℃. RAD 125 UL 3197 are generally used as the connecting wire for the internal wiring of the electronic and electrical equipment, such as home appliances, motor, lightings. It can be used with the protective tubes when necessary.

AWM = Appliance Wiring Material
UL = Underwriters Laboratories Inc. (USA)
UL File NO. E334907

AWG-no.	Outer Diameter mm	Cable Weight kg/km	Max. Cond. Resistance at 20 ℃ Ohm/km
26	2.10	6.07	150.00
24	2.21	7.20	94.20
22	2.39	9.21	59.40
20	2.55	11.27	36.70
18	2.78	14.83	23.20
16	3.10	20.34	14.60
14	3.48	28.67	8.96
12	4.12	45.82	5.64
10	4.67	62.24	3.55

RAD 125 UL 3182

Technical data

- Halogen-free single core with increased heat resistance according to UL Style 3182
- **Temperature range**
  -40 ℃ to + 125 ℃
- **Nominal voltage** 600 V
- **Test voltage** 3500 V
- **Minimum bending radius**
  flexing approx. 12.5 x cable diameter
  fixed installation approx. 4 x cable diameter

Properties

- Halogen-free
- Lower propagation of fire
- Low development of smoke and fumes
- Good abrasion and notch resistance
- Good resistance to oils and weathering
- Resistant to UV radiation and ozone
- Resistant to soldering temperatures

Cable structure

- Conductor: 26 AWG - 9 AWG solid or stranded round, tinned or bare copper.
- Insulation: XLPE

Application

RAD 125 wires are the collection for our irradiation cross-linked PE (XLPE) hook- up wires. They have the heat-resistant features with rated temperature at 125℃. RAD 125 UL 3182 are generally used as the connecting wire for the internal wiring of the electronic and electrical equipment, such as home appliances, motor, lightings. It can be used with the protective tubes when necessary.

AWM = Appliance Wiring Material
UL = Underwriters Laboratories Inc. (USA)
UL File NO. E334907

AWG-no.	Outer Diameter mm	Cable Weight kg/km	Max. Cond. Resistance at 20 ℃ Ohm/km
26	2.90	10.68	150.00
24	3.01	12.02	94.20
22	3.19	14.37	59.40
20	3.35	16.72	36.70
18	3.58	20.70	23.20
16	3.90	26.81	14.60
14	4.28	35.75	8.96
12	4.77	49.40	5.64
10	5.40	71.12	3.55
9	5.65	80.60	2.81

RAD 125 UL 3265

Technical data

- Halogen-free single core with increased heat resistance according to UL Style 3265
- **Temperature range**
  -40 ℃ to + 125 ℃
- **Nominal voltage** 150 V
- **Minimum bending radius**
  flexing approx. 12.5 x cable diameter
  fixed installation approx. 4 x cable diameter

Properties

- Halogen-free
- Lower propagation of fire
- Low development of smoke and fumes
- Good abrasion and notch resistance
- Good resistance to oils and weathering
- Resistant to UV radiation and ozone
- Resistant to soldering temperatures

Cable structure

- Conductor: 32 AWG - 16 AWG solid or stranded round.
- Insulation: XLPE

Application

RAD 125 wires are the collection for our irradiation cross-linked PE (XLPE) hook- up wires. They have the heat-resistant features with rated temperature at 125℃. RAD 125 UL 3265 are generally used as the connecting wire for the internal wiring of the electronic and electrical equipment, such as home appliances, motor, lightings. It can be used with the protective tubes when necessary.

AWM = Appliance Wiring Material
UL = Underwriters Laboratories Inc. (USA)
UL File NO. E334907

AWG-no.	Outer Diameter mm	Cable Weight kg/km	Max. Cond. Resistance at 20 ℃ Ohm/km
30	0.75	1.04	361.0
28	0.89	1.54	239.0
26	1.00	2.13	150.0
24	1.11	2.98	94.2
22	1.26	4.24	59.4
20	1.45	6.19	36.7
18	1.68	9.06	23.2
16	2.00	13.87	14.6

RAD 125 UL 3266

Technical data

- Halogen-free single core with increased heat resistance according to UL Style 3266
- **Temperature range**
  -35 °C to + 125 °C
- **Nominal voltage** 300 V
- **Test voltage** 2000 V
- **Minimum bending radius**
  flexing approx. 12.5 x cable diameter
  fixed installation approx. 4 x cable diameter

Properties

- Halogen-free
- Lower propagation of fire
- Low development of smoke and fumes
- Good abrasion and notch resistance
- Good resistance to oils and weathering
- Resistant to UV radiation and ozone
- Resistant to soldering temperatures

Cable structure

- Tinned Cu wires, according to AWG-sizes
  Conductor make-up:
  AWG 24 to AWG 14 = 19-wires
  AWG 12 = 65-wires
  AWG 10 = 105-wires
- Core insulation of polyolefin-copolymer, cross-linked, flame retardant, halogen-free

Application

RAD 125 wires are the collection for our irradiation cross-linked PE (XLPE) hook- up wires. They have the heat-resistant features with rated temperature at 125°C. RAD 125 UL 3266 are generally used as the connecting wire for the internal wiring of the electronic and electrical equipment, such as home appliances, motor, lightings. It can be used with the protective tubes when necessary.

AWM = Appliance Wiring Material
UL = Underwriters Laboratories Inc. (USA)
UL File NO. E334907

AWG-no.	Outer Diameter mm	Copper Weight kg/km	Cable Weight kg/km
24	1.5	2.3	4.0
22	1.6	3.2	6.0
20	1.9	5.0	9.0
18	2.1	7.9	12.0
16	2.4	12.6	16.0
14	2.9	20.7	27.0
12	3.3	33.0	36.0
10	4.1	51.6	58.0

RAD 125 UL 3271

Technical data

- Halogen-free single core with increased heat resistance according to UL Style 3271
- **Temperature range** -35 ℃ to + 125 ℃
- **Nominal voltage** 600 V
- **Test voltage** 3500 V
- **Minimum bending radius** flexing approx. 12.5 x cable diameter fixed installation approx. 4 x cable diameter

Properties

- Halogen-free
- Lower propagation of fire
- Low development of smoke and fumes
- Good abrasion and notch resistance
- Good resistance to oils and weathering
- Resistant to UV radiation and ozone
- Resistant to soldering temperatures

Cable structure

- Tinned Cu wires
- Core insulation of polyolefin-copolymer, cross-linked, flame retardant, halogen-free

Application

RAD 125 wires are the collection for our irradiation cross-linked PE (XLPE) hook- up wires. They have the heat-resistant features with rated temperature at 125℃. RAD 125 UL 3271 are generally used as the connecting wire for the internal wiring of the electronic and electrical equipment, such as home appliances, motor, lightings. It can be used with the protective tubes when necessary.

AWM = Appliance Wiring Material
UL = Underwriters Laboratories Inc. (USA)
UL File NO. E334907

Cross-sec. mm^2	Outer Diameter mm	Copper Weight kg/km	Cable Weight kg/km
0.25	2.3	2.4	7.0
0.50	2.6	4.8	11.0
0.75	2.8	7.2	14.0
1.00	2.9	9.6	17.0
1.50	3.2	14.4	22.0
2.50	3.7	24.0	33.0
4.00	4.2	38.4	53.0
6.00	4.8	57.6	78.0
10.00	6.7	96.0	136.0
16.00	8.5	154.0	203.0
25.00	10.4	240.0	300.0
35.00	11.5	336.0	405.0
50.00	14.4	480.0	580.0

RAD 155 UL 3289

Technical data

- Halogen-free single core with increased heat resistance according to UL Style 3289
- **Temperature range**
  -35 ℃ to + 150 ℃
- **Nominal voltage** 600 V
- **Minimum bending radius**
  flexing approx. 12.5 x cable diameter
  fixed installation approx. 4 x cable diameter

Properties

- Halogen-free
- Lower propagation of fire
- Low development of smoke and fumes
- Good abrasion and notch resistance
- Good resistance to oils and weathering
- Resistant to UV radiation and ozone
- Resistant to soldering temperatures

Cable structure

- Conductor: 30 AWG - 750 kcmil solid or stranded, tinned, bare or silver plated copper or solid
- Insulation: XLPE or XLPO

Application

RAD 155 wires are the collection for our irradiation cross-linked PE (XLPE) hook- up wires. They have the heat-resistant features with rated temperature at 150℃. RAD 155 UL 3289 are generally used as the connecting wire for the internal wiring of the electronic and electrical equipment, such as home appliances, motor, lightings. It can be used with the protective tubes when necessary.

AWM = Appliance Wiring Material
UL = Underwriters Laboratories Inc. (USA)
UL File NO. E334907

AWG-no.	Outer Diameter mm	Cable Weight kg/km	Max. Cond. Resistance at 20 ℃ Ohm/km
30	1.81	4.18	361.00
28	1.95	5.01	239.00
26	2.06	5.87	150.00
24	2.17	6.99	94.20
22	2.35	9.00	59.40
20	2.51	11.04	36.70
18	2.74	14.35	23.20
16	3.06	20.06	14.60
14	3.44	28.26	8.96
12	3.93	40.97	5.64
10	4.56	61.47	3.55
8	6.10	102.85	2.23
6	7.82	165.45	1.36
4	9.10	247.71	0.86
2	10.29	339.85	0.54
1	12.46	475.38	0.43
1/0	13.29	561.68	0.34
2/0	14.60	710.83	0.27
3/0	15.71	852.83	0.22
4/0	17.20	1062.74	0.17

RAD 155 UL 3321

Technical data

- Halogen-free single core with increased heat resistance according to UL Style 3321
- **Temperature range fixed**
  -35 ℃ to + 150 ℃
- **Nominal voltage** 600 V
- **Minimum bending radius**
  flexing approx. 12.5 x cable diameter
  fixed installation approx. 4 x cable diameter

Properties

- Halogen-free
- Lower propagation of fire
- Low development of smoke and fumes
- Good abrasion and notch resistance
- Good resistance to oils and weathering
- Resistant to UV radiation and ozone
- Resistant to soldering temperatures

Cable structure

- Conductor: 30 AWG - 4/0 AWG solid or stranded round, tinned or bare copper
- Insulation: XLPE

Application

RAD 155 wires are the collection for our irradiation cross-linked PE (XLPE) hook- up wires. They have the heat-resistant features with rated temperature at 150℃. RAD 155 UL 3321 are generally used as the connecting wire for the internal wiring of the electronic and electrical equipment, such as home appliances, motor, lightings. It can be used with the protective tubes when necessary.

UL File NO. E334907

AWG-no.	Outer Diameter mm	Cable Weight kg/km	Max. Cond. Resistance at 20 ℃ Ohm/km
30	1.81	4.18	361.00
28	1.95	5.01	239.00
26	2.06	5.87	150.00
24	2.17	6.99	94.20
22	2.35	9.00	59.40
20	2.51	11.04	36.70
18	2.74	14.35	23.20
16	3.06	20.06	14.60
14	3.44	28.26	8.96
12	3.93	40.97	5.64
10	4.56	61.47	3.55
8	6.10	102.85	2.23
6	7.82	165.45	1.36
4	9.10	247.71	0.86
2	10.29	339.85	0.54
1	12.46	475.38	0.43
1/0	13.29	561.68	0.34
2/0	14.60	710.83	0.27
3/0	15.71	852.83	0.22
4/0	17.20	1062.74	0.17