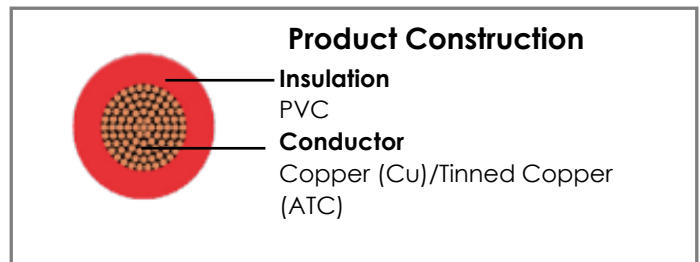


Balaji Wires-UL-1569, Single core UL-1569 105°C Cables



Applications

- ✓ Appliance wiring material (AWM)
- ✓ Internal wiring of meters, panels, Machine Tool electrical & electronic equipment, In Machine Laid, In protective tubes, flexible pipes and also for Motors and Transformers.

Features

- ✓ PVC self - extinguishing and flame retardant, test method to UL VW-1 and CSA FT 1 / FT 2
- ✓ Rated for Continuous use up to 60°C or 80°C in oil and 105°C in Dry.

Technical Data

Standard	UL - Std. 758. Complies to CSA No. 22.2 210
Nominal Voltage	300 V
Test Voltage (Spark Test)	AWG 28 to 24 → 4 kV (DC) AWG 22 to 20 → 5 kV (DC) AWG 18 to 16 → 6 kV (DC) ≤ AWG 8 → 7.5 kV (DC)
Temperature Range	Flexible -5°C to +105°C Fixed Installation -20°C to +105°C
Temperature at Conductor	Max. UL and CSA : +105°C
Bending Radius	Flexing 10 x Cable ø .Fixed Installation 5 x cable ø

Certifications & Compliance



Cable Design Parameters

AWG	Metric Cross Sectional Area (Sq .mm)	No of Strand /Strand Diameter (mm)	Approx. Diameter of Conductor	Average Insulation Thickness	Minimum Insulation Thickness	Nominal Cable Diameter
28	0.0804	7/0.13	0.385	0.39	0.33	1.20
26	0.128	7/0.16	0.485	0.39	0.33	1.30
24	0.205	7/0.20	0.610	0.39	0.33	1.45
22	0.324	7/0.25	0.760	0.39	0.33	1.60
20	0.519	7/0.31	0.950	0.39	0.33	1.80
20	0.519	26/0.16	0.950	0.39	0.33	1.80± 0.10

AWG	Metric Cross Sectional Area (Sq .mm)	No of Strand /Strand Diameter (mm)	Approx. Diameter of Conductor	Average Insulation Thickness	Minimum Insulation Thickness	Nominal Cable Diameter
20	0.519	19/0.19	0.950	0.39	0.33	1.78 ± 0.10
18	0.823	16/0.26	1.20	0.39	0.33	2.00
16	1.317	26/0.26	1.55	0.39	0.33	2.35
14	2.078	41/0.26	1.90	0.39	0.33	2.70
12	3.31	65/0.26	2.40	0.39	0.33	3.20
10	5.26	105/0.26	3.05	0.39	0.33	3.85
8	8.367	168/0.26	3.90	0.77	0.69	5.40
8	8.367	1083/0.10	3.90	0.77	0.69	5.40
6	13.30	266/0.26	4.85	0.77	0.69	6.40
4	21.15	420/0.26	6.10	0.77	0.69	7.65
2	33.62	665/0.26	7.65	0.77	0.69	9.20

Note

We can provide the following variants: -

Variant 1-Flexible copper construction for enhanced flexibility & improved bending radius.

Variant 2-Higher temperature upto 150°C with higher current rating

Variant 3 – Copper Alloy conductor for high tensile & high flex

Please contact us at md@balajiwires.in for more information.

Disclaimer: REACH compliance should be considered as customer specific requirement and must be specified at time enquiry if required. The information contained in this datasheet is for guidance only and is subject to change without notice or liability. All the information is provided in good faith and is believed to be correct at the time of publication. When selecting the cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances