

YGG silicone-sheathed cable

English reference AY-MOTOR-REF-EN-01 | Prepared 2026-10-03 | Based on supplied ANYANG catalogue pages 88-89.

For power, control and equipment connections. Fixed installation and occasional free movement without imposed force or forced guidance; dry or damp indoor locations. The source also describes outdoor use, but excludes direct burial.

Conductor	Fine-stranded tinned copper; DIN VDE 0295 / IEC 60228 Class 5 or 6. The extra-soft version lists 0.08 mm individual strands.
Core insulation	Silicone rubber or fluoropolymer (identified as Teflon in the source); these are different construction options.
Core assembly	Colour-identified cores with tissue-paper cushioning wrap.
Outer sheath	Silicone rubber. Colours listed: black RAL 9005, blue RAL 5005, grey RAL 7001 and red RAL 3000.
Rated voltage U0/U	YGZ light version: below 0.5 mm2, 300/300 V; 0.5-4.0 mm2, 300/500 V. YGC heavy version: 4.0 mm2 and above, 450/750 V. YGZF fluoropolymer-insulated core version: 300/500 V.
Test voltage	The source lists 1500 V, 2000 V, 2500 V and 1500 V in sequence. Test duration, method and an explicit version-to-test-voltage table are not supplied.
Temperature	-60 to +180 degrees C continuous; up to +200 degrees C short-term. The fixed-installation table separately prints -60/+200 degrees C; the prose limits continuous use to +180 degrees C. No short-term duration is specified.
Bending	Minimum bend radius for fixed installation: 6 x finished cable outside diameter.
Installation note	Provide suitable ventilation above +100 degrees C. This reference does not establish continuous drag-chain or torsional performance.
Current capacity	The source refers to DIN VDE and a technical table; it supplies no numeric ampacity values. Diameter and weight are not ampacity ratings.

Scope: The original describes resistance to acids, alkalis, oils, ozone, seawater and weather, without test conditions or limits. It lists lighting, model aircraft, batteries, new-energy vehicles, power generation, steel, aerospace, shipbuilding, glass, ceramics and cement as applications. These descriptions are not application-specific approvals.

The 4.0 mm2 boundary appears in both light and heavy voltage versions. Select the version explicitly; do not assign a voltage from size alone. CE/RoHS logos in the original are not reproduced as certification evidence. This English reference preserves source scope and is not a test report.

YGG - dimensions and weights

Complete transcription of the 87 size rows on source catalogue page 89. Values are unchanged; sorted by area and core count.

Cores x mm2	OD (mm)	Approx. kg/km	Cores x mm2	OD (mm)	Approx. kg/km
2 x 0.14	4.1	19.7	2 x 0.75	6.2	50.7
3 x 0.14	4.3	22.2	3 x 0.75	6.5	60.4
4 x 0.14	4.6	25.9	4 x 0.75	7.2	75.3
5 x 0.14	4.9	29.9	5 x 0.75	7.8	90.4
6 x 0.14	5.2	34.3	6 x 0.75	8.4	106.7
7 x 0.14	5.2	35.4	8 x 0.75	9.1	119.2
8 x 0.14	5.5	37.8	10 x 0.75	10.6	148.2
10 x 0.14	6.3	46.0	12 x 0.75	10.9	170.0
12 x 0.14	6.4	51.1	2 x 1.0	6.8	62.4
2 x 0.20	4.3	22.5	3 x 1.0	7.2	75.1
3 x 0.20	4.5	25.7	4 x 1.0	7.8	91.7
4 x 0.20	4.8	30.2	5 x 1.0	8.6	114.3
5 x 0.20	5.2	35.2	6 x 1.0	9.4	135.4
6 x 0.20	5.5	40.7	8 x 1.0	10.1	151.3
7 x 0.20	5.5	42.2	10 x 1.0	11.8	188.6
8 x 0.20	5.9	45.1	12 x 1.0	12.2	217.2
10 x 0.20	6.7	55.1	2 x 1.5	7.8	84.6
12 x 0.20	6.9	61.7	3 x 1.5	8.2	103.3
14 x 0.20	7.2	69.0	4 x 1.5	9.0	127.9
16 x 0.20	7.5	76.6	5 x 1.5	9.8	155.2
18 x 0.20	7.9	84.2	6 x 1.5	10.7	184.7
20 x 0.20	8.1	90.9	8 x 1.5	11.5	207.5
2 x 0.30	4.8	28.1	10 x 1.5	13.6	259.4
3 x 0.30	5.0	32.7	2 x 2.0	8.9	110.1
4 x 0.30	5.4	38.8	3 x 2.0	9.4	135.1
5 x 0.30	5.8	45.7	4 x 2.0	10.3	168.0
6 x 0.30	6.2	53.2	5 x 2.0	11.2	204.6
7 x 0.30	6.2	55.6	6 x 2.0	12.3	244.4
8 x 0.30	6.6	59.3	2 x 2.5	9.7	133.7
10 x 0.30	7.6	73.0	3 x 2.5	10.3	164.7
12 x 0.30	7.8	82.4	4 x 2.5	11.3	205.5
14 x 0.30	8.1	92.7	5 x 2.5	12.4	251.0
16 x 0.30	8.5	103.3	6 x 2.5	13.6	300.4
18 x 0.30	9.0	114.0	2 x 4	10.8	138.6
20 x 0.30	9.2	123.6	3 x 4	11.5	186.6
2 x 0.5	5.8	42.1	4 x 4	12.6	238.0
3 x 0.5	6.1	49.4	5 x 4	13.8	297.0
4 x 0.5	6.6	60.7	3 x 6	13.3	261.3
5 x 0.5	7.2	72.4	4 x 6	14.7	335.5
6 x 0.5	7.8	85.1	5 x 6	16.2	420.5
7 x 0.5	7.8	89.0	3 x 10	15.8	393.6
8 x 0.5	8.4	94.0	4 x 10	17.5	508.9
10 x 0.5	9.7	116.7	5 x 10	19.3	640.3
12 x 0.5	10.0	132.9			

OD = overall cable diameter. Weights are approximate. The source table does not assign every size row to YGZ, YGC or YGZF. Dimensional tolerances and revision date are not printed in the supplied source.

Standard-flex shielded servo power cable

English reference AY-MOTOR-REF-EN-01 | Separate PVC cable family | Based on the supplied two-page servo cable reference.

Power, control and connection cable for servo motors and drives. Suitable for fixed installation and occasional free movement without imposed force or forced guidance, in dry or damp indoor locations. Outdoor installation requires UV protection.

Conductor	Fine-stranded bare copper; DIN VDE 0295 / IEC 60228 Class 5.
Core insulation	Special PVC compound - not silicone rubber.
Core identification	Coloured cores, or black/white cores with printed numbers.
Overall screen	Aluminium/polyester foil covering and tinned-copper wire braid.
Outer sheath	Special PVC compound. Colours listed: black RAL 9005, grey RAL 7001, orange RAL 2003 and green RAL 6018.
Rated voltage U0/U	Below 0.5 mm2: 300/300 V. 0.5-4.0 mm2: 300/500 V. 4.0 mm2 and above: 450/750 V. The 4.0 mm2 boundary occurs in two bands in the original; the selected version must be identified.
Test voltage	The source lists 1500 V, 2000 V and 2500 V in sequence. It does not state the test duration, method or an explicit version-to-test-voltage table.
Temperature, fixed	Standard PVC: -10 to +80 degrees C. Cold/heat-resistant PVC: -40 to +105 degrees C. These are separate PVC compound options.
Bending	Minimum bend radius for fixed installation: 6 x finished cable outside diameter.
Current capacity	The source refers to DIN VDE and a technical table, without numeric ampacity values.

Product characteristics: The source describes easy core identification, flexibility, a small bend radius and screening for EMC-related applications. It provides no braid coverage, transfer impedance, EMC test result, continuous-motion cycle count or torsion rating. These properties must not be inferred.

Ordering scope: The source offers changes to conductor cross-section, materials, screen and core/sheath colours. Identify the required construction, voltage version, temperature compound, installation duty and quantity with the enquiry.

This is a separate PVC servo cable reference, not a silicone-cable specification. CE/RoHS logos in the original are not certification evidence. No external certification or measured performance has been added to this translation.

PVC servo cable - dimensions and weights

Complete transcription of all 57 rows in the supplied servo size table. Numeric values are unchanged.

Cores x mm2	OD (mm)	Approx. kg/km	Cores x mm2	OD (mm)	Approx. kg/km
2 x 0.14	4.3	25.6	2 x 0.5	6.2	52.1
4 x 0.14	4.7	33.2	3 x 0.5	6.5	62.3
6 x 0.14	5.3	43.6	4 x 0.5	7.0	74.0
8 x 0.14	5.9	52.0	6 x 0.5	8.1	101.5
10 x 0.14	6.6	62.7	2 x 0.75	6.6	60.8
12 x 0.14	6.8	68.3	3 x 0.75	6.9	73.7
14 x 0.14	7.0	75.1	4 x 0.75	7.5	88.7
18 x 0.14	7.7	82.3	6 x 0.75	8.7	123.3
20 x 0.14	7.8	95.6	2 x 1.0	7.2	73.0
2 x 0.20	4.5	29.1	3 x 1.0	7.6	89.5
4 x 0.20	5.0	37.7	4 x 1.0	8.3	108.7
6 x 0.20	5.6	49.4	6 x 1.0	9.7	153.4
8 x 0.20	6.2	60.3	2 x 1.5	8.1	93.3
10 x 0.20	7.0	73.1	3 x 1.5	8.6	117.5
12 x 0.20	7.2	80.5	4 x 1.5	9.3	143.8
14 x 0.20	7.5	89.2	3 x 2.0	9.7	147.9
16 x 0.20	7.9	98.0	4 x 2.0	10.6	183.0
18 x 0.20	8.2	107.0	2 x 2.5	10.0	137.6
20 x 0.20	8.4	114.2	3 x 2.5	10.6	177.0
2 x 0.30	5.1	36.9	4 x 2.5	11.6	219.0
4 x 0.30	5.7	50.3	3 x 4	11.8	221.9
6 x 0.30	6.5	67.3	4 x 4	12.9	278.0
8 x 0.30	6.9	78.1	3 x 6	13.6	303.4
10 x 0.30	7.9	95.1	4 x 6	15.0	383.7
12 x 0.30	8.1	106.0	3 x 10	16.2	331.5
14 x 0.30	8.5	117.4	4 x 10	17.8	445.8
16 x 0.30	8.9	130.0	3 x 16	19.8	678.6
18 x 0.30	9.3	142.0	4 x 16	22.0	871.4
20 x 0.30	9.5	152.4			

OD = overall cable diameter. Weights are approximate. Compound options, voltage-version assignment and dimensional tolerances are not stated for individual rows.

Source access and provenance

Original Chinese references remain available in the Technical documents section at:

<https://aycables.com/motors-generators-electrical-equipment/>

Original publisher shown: ANYANG Industrial Cable / dganyang.com.

English compilation date is not the issue date of the source documents. This file is a translated technical reference, not a certificate, independent test report or guarantee of suitability.