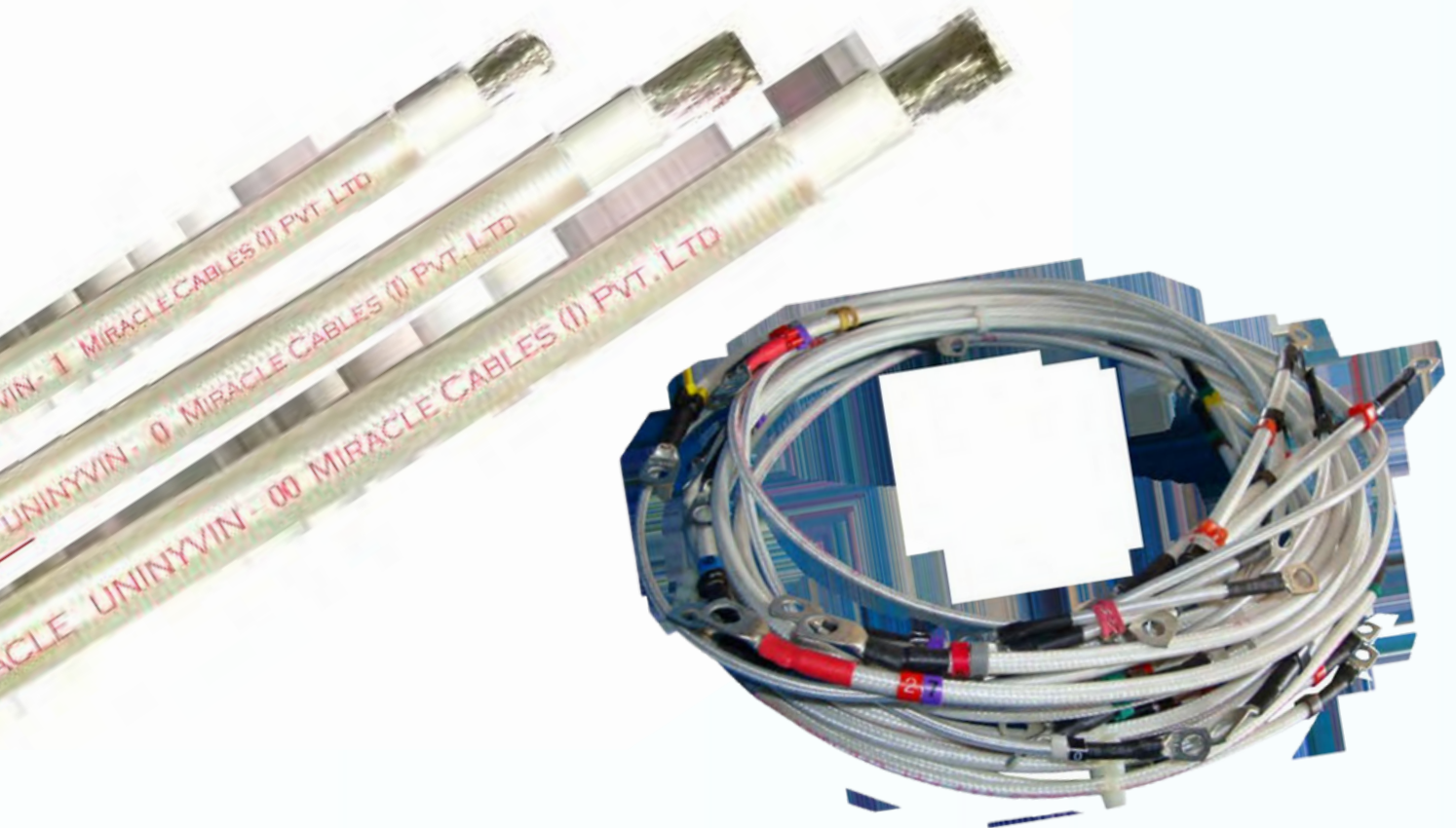
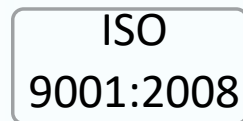


# UNINYVIN MIRACLE CABLES

CERTIFIED COMPANY NABCE QM 002



# Miracle NYVIN™ cables

Miracle NYVIN™ cables are single Core, Annealed Tinned Copper Conductor, Heat Resistance 1050C Poly Vinyl Chloride (HR-PVC) insulation cables with Fiber Glass, Nylon Braided Nylon Lacquering.

These Cables are traditionally used in Air Craft wiring. These cables are economical and efficient to use as UPS Battery Cable, UPS Wiring, Battery bank interconnections, Panel Board wirings, interconnection wires apart from various othersuitable applications. These cables are suitable for use in continuous service. It has conductor temperature rating of 1050C. Cable ambient temperatures – 300C to 650C. Uninyvin has good moisture and abrasion resistance. Good resistance to fuels, oils and alkalis. Miracle NYVIN™ conforms standard specification as per BSG- 177.

Miracle NYVIN™ can be supplied as wire forms, cable kits and wire looms; we have the men and machine to make world class cutting, striping and crimping.

UNINYVIN CABLES					
Uninyvin Cable	Size(area)	Conductor Diameter "Max"	Overall Diameter "Max"	Conductor Resistance at 20°C "Max"	Max Current Rating "Amps"
Code	"Sq. mm"	"mm"	"mm"	"Ω/ 900m"	BS-G-177
22	0.347	0.838	2.00	49.660	11
20	0.566	1.04	2.30	30.950	14
18	0.966	1.32	2.50	17.820	18
16	1.17	1.55	2.80	14.700	21
14	2.05	1.95	3.40	8.410	31
12	3.22	2.43	3.80	5.350	43
10	5.33	3.15	5.00	3.230	61
8	8.76	4.24	6.30	1.970	87
6	13.3	5.54	7.50	1.300	115
4	21.5	6.90	9.30	0.802	160
2	33.3	8.76	11.00	0.517	200
1	40.7	9.75	12.20	0.423	220
0	53.0	11.0	13.70	0.325	240
00	68.3	12.4	15.40	0.252	270
000	84.2	13.9	16.90	0.204	300
0000	109	15.6	18.70	0.158	350

## De-rating Factors of Nyvin Cables for Different ambient

Ambient Tem.	40	45	50	55	60	65	70	75	80	85	90	95	100
°C De rating	1.0	0.96	0.92	0.88	0.83	0.78	0.75	0.73	0.68	0.62	0.53	0.48	0.30

Factors

## Miracle Nyvin™

Uninyvin Cable No.	"Sq. mm"	Maximum continuous Rating Amperes in Free Air			
		Single Cable	3 Bonched Cables	7 Bonched Cables	12 Bonched Cables
22 0.347		11	7	5	4
20 0.566		14	9	7	5
18 0.966		18	13	10	6
16 1.170		21	15	11	7
14 2.050		31	24	17	12
12 3.220		43	30	22	15
10 5.330		61	47	36	25
8 8.760		87	65	49	36
6 13.300		115	87	65	-
4 21.500		160	120	92	-
2 33.300		200	155	120	-
1 40.700		220	165	130	-
0 53.000		240	185	168**	-
00 68.300		270	210/240*	190**	-
000 84.200		300	235/265*	210**	-
0000 109.000		350	270/305*	245**	-

(\* = Denotes two cables only, \*\* = Denotes five cables only)

These current rating are based on a temperature rise of 40°C and allow for an ambient temperature of 65°C. The maximum permissible conductor temperature is 105°C. If the ambient temperature “t” is continuously in excess of 65°C; the current should be multiplied by the factor “k” where,

$$k = \sqrt{\frac{105-t}{40}}$$

COMPARISON CHART – NORMAL PVC CABLES VS UNINYVIN CABLES					
PVC CABLE			UNINYVIN CABLE		
Size mm <sup>2</sup>	Cable Dia mm	Current Rating Amp	Size AWG	Cable Dia mm	Current Rating Amp
2.50	3.50	20	18	2.50	23
4.00	4.30	27	16	2.80	27
6.00	5.30	35	14	2.40	40
10.0	6.70	46	12	3.80	55
16.0	8.20	62	10	5.00	78
25.0	10.00	80	8	6.30	111
35.0	11.30	102	6	7.50	148
50.0	13.50	138	4	9.30	205
70.0	15.50	214	2	11.00	256
95.0	18.50	260	1	12.20	282
120	20.90	305	0	13.70	308
150	22.50	355	00	15.40	346
185	24.60	415	000	16.90	386
240	27.60	450	0000	18.90	450

General Comparison between Nyvin cable & PVC Cable		
Particulars	Nyvin Cables -22	PVC Insulated Cables 1 Sq MM
Cable weight	6.5kg/km	15kg/km (1.00sq.mm)
Cable Size	Lower size (0.347sqmm)	Higher size(1.00sqmm)
Current Rating	14 Amps	12Amps
Temperature Rating	105°C	70°C
Insulation grade	Type-C HR-105°C ( High Temp)	Type-A 70°C
Conductor Material	Tinned Plated copper (No corrosion)	Plain copper
Abrasive strength	Good ( F- Glass & Nylon Jacket)	Nil
Heat Test	Cable shall separate without	Test Not applicable as per ISI
Bending radius mini.	sticking 3 to 6 times of Cable Dia	Standard 3 to 6 times of Cable dia
Mechanical Strength	Good (16.00N/sqmm)	Normal ( 12.5N/sqmm)
Flexibility Test	No signs of damage	Normal
Voltage grade	600Volts rms.	Up to & including 650 / 1100 V

Note: The comparisons chart and other example data given are based on our experience the result may vary based on various factors; no warranty or damage claim shall be entertained or will not bind Miracle Cable India Pvt. Ltd legally. Customers are requested to verify the facts before using the products.



About us

# Miracle Cables (I) Pvt. Ltd is 16 year

to its customers. Situated in Mumbai, a strategic location of India, Miracle Cables currently caters to several world class organizations in India as well as abroad. Miracle Cables (I) Pvt. Ltd. has following achievements to its credit-

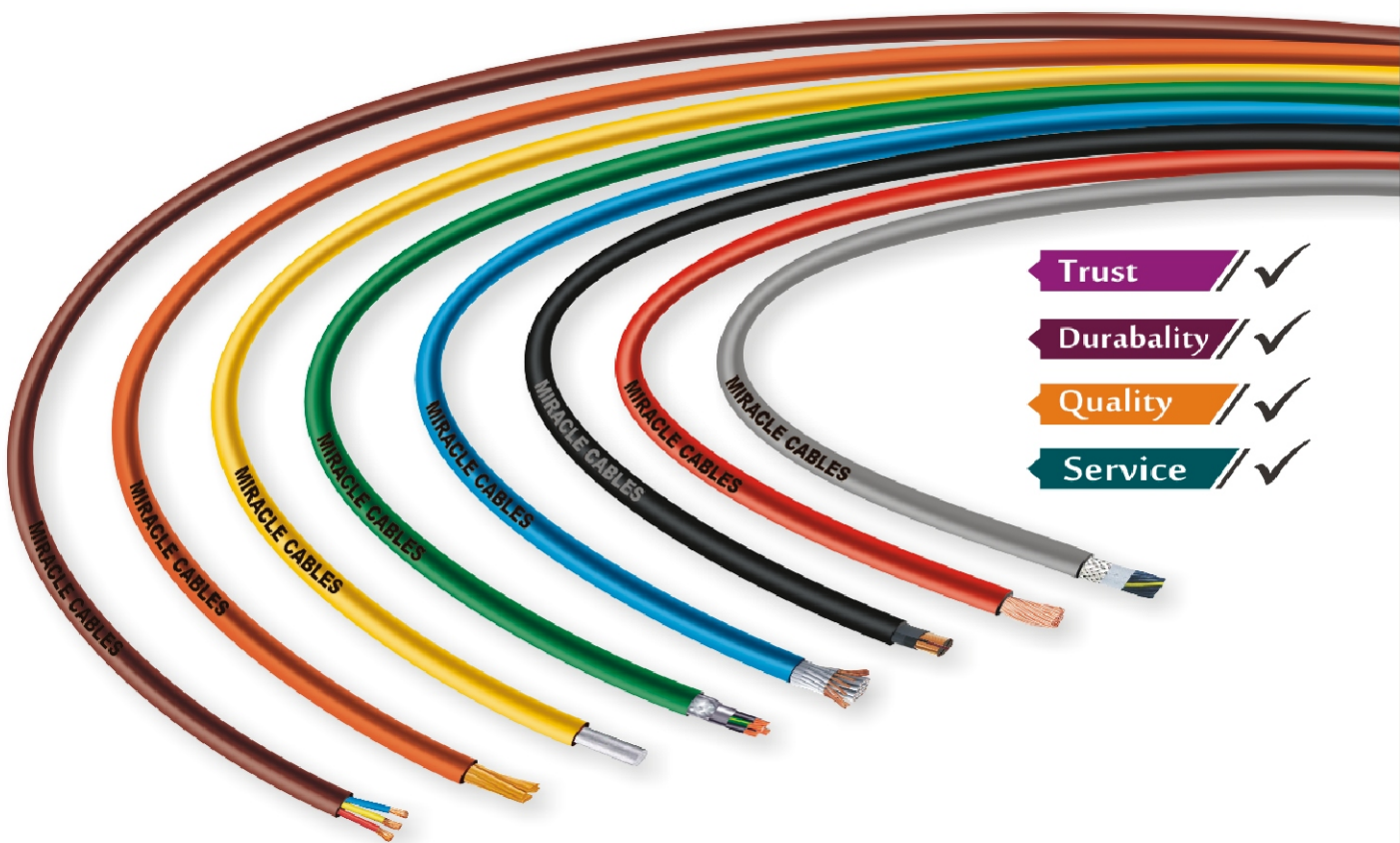
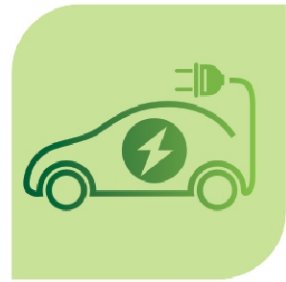
- ARAI(The automotive Research Association of India) test certificate
- ISO 9001-2008
- ISI Certification
- NTH (National Test House) test certificate
- CPRI test Certificate
- UL (Underwriters' Laboratories) Certification
- CVRDe (Combat Vehicles R & D estt.) approval
- DGQA (Directorate General of Quality Association) approval
- eRTL (electronics Regional Test Laboratory) certificate
- eRDA (electrical Research & Development Association) test certificate
- ROHS Test certificate

Apart from Auto Cables, Miracle Cables (I) Pvt. Ltd also manufactures cables for wide range of applications. These cables include Uninyvin Cable, Power cables, Control & instrumentation cable, eco-friendly cable, and many more.

MIRACLE CABLES (INDIA) PVT.LTD.,  
203, Dhamji Shamji Business Galeria, L.B.S Marg,  
Near Huma Talkies , Kanjur Marg, West, Mumbai – 400078, Ph:- 022-25792011, 022-25792012,  
Email: [marketing@miraclecables.com](mailto:marketing@miraclecables.com), Website: [www.miraclecables.com](http://www.miraclecables.com)

YOGIRAJ ELECTRICALS,  
SUNDER SAMRUDDHI, Off.No.103,first floor, D-2 Wing, Hindustan Ferro Rd, Dhayari, Pune, Maharashtra 411041  
Ph: +91 7385996760 / +91 7387317499  
Email: [info@yogirajelectricals.in](mailto:info@yogirajelectricals.in) / [yogirajelectricals2014@gmail.com](mailto:yogirajelectricals2014@gmail.com), Website: [www.yogirajelectricals.in](http://www.yogirajelectricals.in)





- Trust // ✓
- Durability // ✓
- Quality // ✓
- Service // ✓



ECO FRIENDLY



EFFICIENT



ECONOMICAL

SINCE 1997  
**MIRACLE CABLES**<sup>®</sup>  
Smart cable solutions

[www.miraclecables.com](http://www.miraclecables.com)

## About Us :

**Miracle Cables** is India's Fastest growing super speciality wire and cable manufacturer, Established in the year 1997 is spread across 100000 Sq. Ft. area build up and is strategically located in Maharashtra, Ambarnath. We have excellent production process with cutting edge technology.

Miracle Cable is pioneer in Uninyvin Cable and are the largest supplier and producer in this product segment.

## Our Vision :

We aspire to be among the top five Cable Manufacturers in India with excellence.

## Mission :

Miracle Cables India Private Limited strives to give the best service and quality possible to our valued customers.

## Objective :

Excellence in customer service & Performing with absolute integrity and in conformity with the highest ethical standards.

## Our Values :

**Miracle Cables (I) Pvt. Ltd.** is always bound with a set of core values which are not limited to being company's success factors, but goes beyond to be a continuing source, including but not limited to:

- Exert the utmost effort to satisfy customers.
- Performing with absolute integrity and in conformity with the highest ethical standards.
- Engage at full capacity to produce the best and most appropriate products, while ensuring safety and reducing the proportion of fires.
- Excellence in customer service.
- Generate and provide greater value to our customers, by offering them a range of value added services, and guiding them to the quality of electric wires and cables that are suitable for their basic needs.
- Provide environmentally friendly cables.
- Community service and contributing towards a better tomorrow.



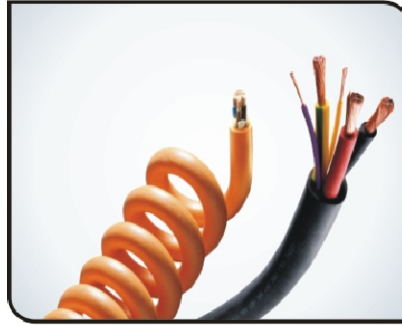
# OUR VAST PRODUCT RANGE



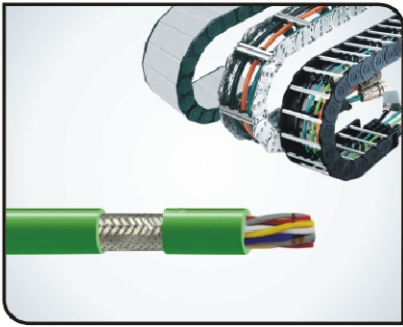
**UNINYVIN CABLES**  
BS-G-177



**AUTOMOTIVE CABLES**  
DIN / JIS / JASO / ISO / SA



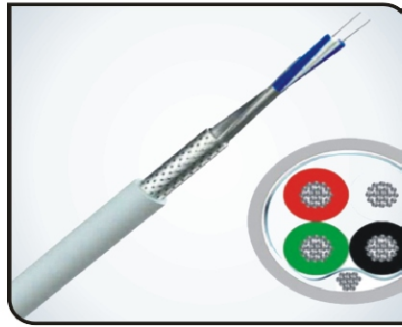
**EV CABLES**



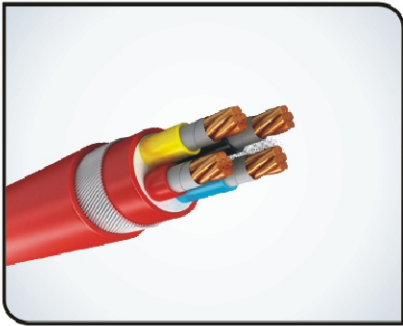
**DRAG CHAIN CABLE**



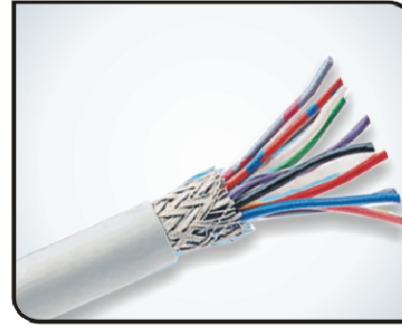
**SENSOR CABLES**



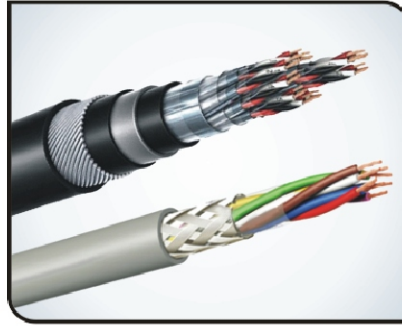
**MODBUS CABLES**



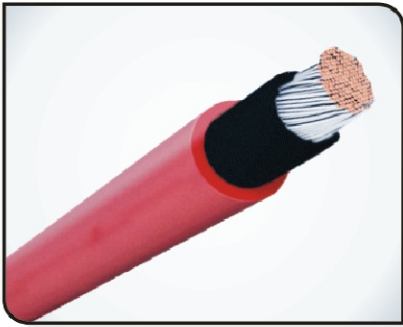
**FIRE SURVIVAL CABLES**



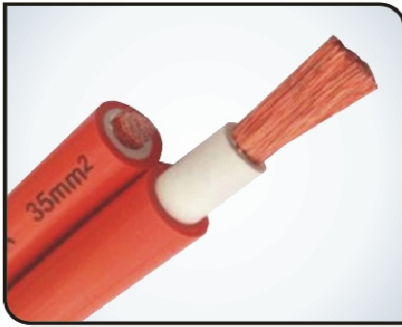
**MIRACLE LIYCY CABLES**



**INSTRUMENTATION CABLES**



**SOLAR CABLES**

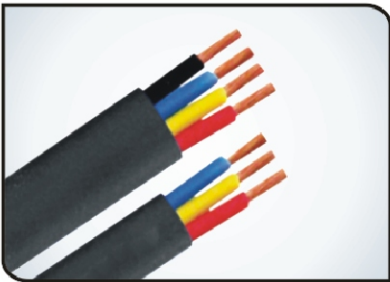


**WELDING CABLES**

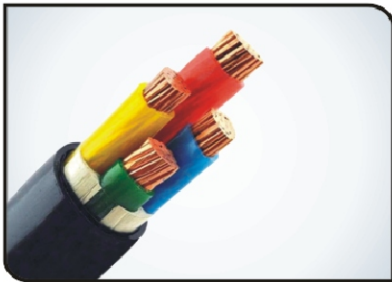


**FRLS CABLES**

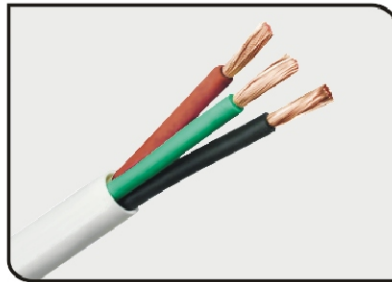
# OUR VAST PRODUCT RANGE



**SUBMERSIBLE CABLES**



**POWER CABLES**



**UL CABLES**  
STYLE-1007, 1015, 1569, 10070, 1284, 10269, 2129, 2464.



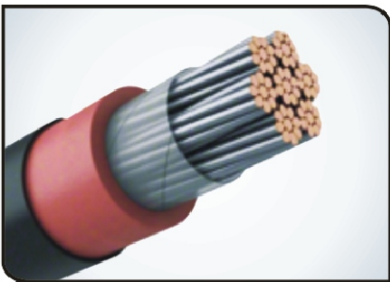
**BATTERY CABLES**



**TRI-RATED CABLES**



**MINING CABLES**



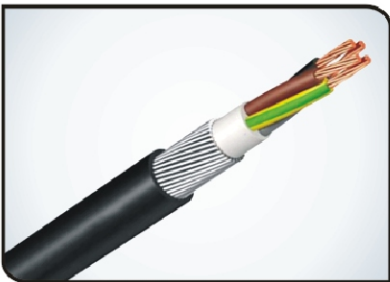
**WIND MILL CABLES**



**HARMONIZED CABLES**  
H05V2-K, H07V2-K, H05V-K, H07V-K



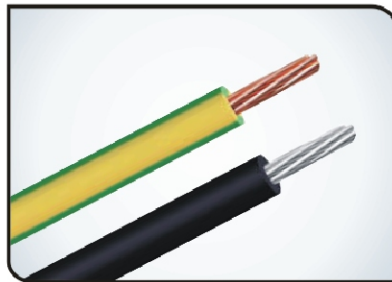
**ELEVATORS CABLES**



**CONTROL CABLES**



**MIRACLE GREEN CABLES**



**HALOGEN FREE CABLES**



**SILICONE CABLES**



**HRRF CABLES**



# CERTIFICATES

**TUV INDIA**  
TUV NORD Group

## Statement of Confirmation

No.: CE/19-20/104

Client's reference - Technical File Number: MC/CE/IEC227/12/2019

Name & Address of the Manufacturer:  
**MIRACLE CABLES (INDIA) PVT. LTD.**  
Plot No. K-29/2, MIDC, Anand Nagar,  
Additional Ambernath, Ambernath (E) - 421501 (INDIA)

Product Nomenclature: 1) Polyvinyl Chloride Insulated cables of rated voltages up to and including 450/750V. Non-sheathed cables for fixed wiring.  
2) Polyvinyl Chloride Insulated cables of rated voltages up to and including 450/750V. Sheathed cables for fixed wiring.  
3) Polyvinyl Chloride Insulated cables of rated voltages up to and including 450/750V. Flexible cables (Cords).

Model No.: IEC Code Designation: IEC 01, IEC 02, IEC 05, IEC 06, IEC 07, IEC 08, IEC 10, IEC 52, IEC 53, IEC 56 & IEC 57

Review Results/Observations  
The Technical File referenced above submitted by the manufacturer has been reviewed for its document contents. The Technical File generally covers the documentation content requirements of the European Directives:  
• Low Voltage Directive 2014/35/EU

Standards Referred to: IEC 60227-1:2007, IEC 60227-2:2003, IEC 60227-3:1997, IEC 60227-4:1997, IEC 60227-5:2011

Document issued by the Manufacturer: EU Declaration of Conformity

Marking on the Product:  **TUV NORD GROUP**

Date of Review: 3 January 2020

  
Mahesh Gaur  
Head - Product Certification

(This Statement of Confirmation is valid under the conditions stated overleaf)

Registered & Head Office: 801, Raheja Plaza I, LBS Marg, Ghalkoper (W), Mumbai 400 088 | Email: infoindia@tuv-nord.com | Tel: +91-22-66477000  
Website: www.tuv-nord.com | Toll Free Number: 1800-209-0902

Job no: 817788286

**TUV NORD**

## CERTIFICATE

Management system as per  
**IATF 16949:2016**  
(1<sup>st</sup> edition, 2016-10-01)

Evidence of conformity with the above standard has been furnished and is certified for

**Miracle Cables (India) Pvt. Ltd.**  
Plot No. K29/2, Additional MIDC,  
Anand Nagar, Ambernath (East) - 421 501,  
Maharashtra,  
India

Scope

**Manufacture of Wires and Cables**  
without product design responsibility (according to section 8.3)

IATF Registration No. 0209754  
Certificate Registration No. 44 111 151697

Issue date: 2018-02-18  
Expiry date: 2021-02-17

  
J. S. Gaur  
at TÜV NORD CERT GmbH

Essen, 2018-02-18

This certification was conducted in accordance with the IATF "Rules for achieving and maintaining IATF recognition".

TÜV NORD CERT GmbH      Langemannstraße 20      45141 Essen      www.tuv-nord-cert.de



02-IAO-QMC-010021      page 1/1      A13F201e rev. 00/01:17

Evolution Technology  
**thyssenkrupp**

## Certificate For Appreciation

### Supplier Excellence Award 2018

This certificate is presented to

**M/s Miracle cables(I) Pvt. Ltd.**

As a token of our appreciation for your good performance

**In FY 2017-18**

Continuation of your good performance for next FY 2018-19  
is highly appreciated

  
Rakesh Sharma  
VP Purchase

  
Sundararaj Baskaran  
Sr. VP Manufacturing

  
Mohit Mangal  
CFO & Director

Date - 17/12/2018

**TUV NORD**

## CERTIFICATE

Management system as per  
**ISO 9001 : 2015**

In accordance with TÜV INDIA procedures, it is hereby certified that

**MIRACLE CABLES (INDIA) PVT. LTD.**  
Plot No. K29/2, Additional MIDC,  
Anand Nagar, Ambernath (East) - 421 501,  
Maharashtra,  
India

applies a quality management system in line with the above standard for the following scope

**Manufacture and Supply of Wires and Cables & Wiring Harness  
for Automotive and other Industries**

Certificate Registration No. GM 61 00682  
Audit Report No. Q 4839/2013

Valid until: 17.02.2021  
Initial Certification 25.04.2016

  
S. K. Kulkarni

Certification Body  
at TÜV INDIA PVT. LTD.

Issue: 18.02.2016  
Place: Mumbai

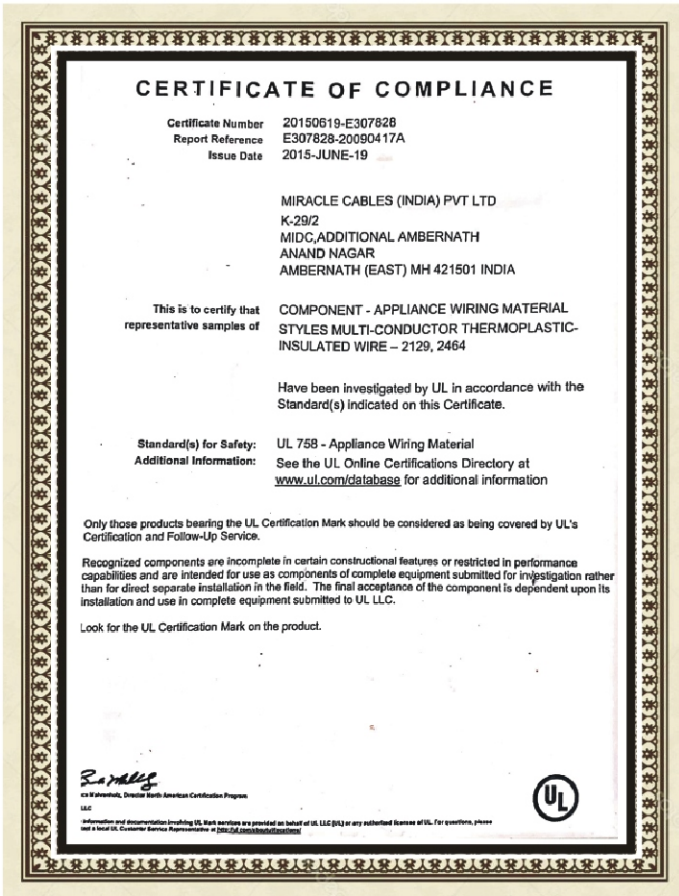
This certification was conducted in accordance with the TÜV INDIA auditing and certification procedures & shall be valid subject to Surveillance Audit 1 before 13.12.2018, Surveillance Audit 2 before 13.12.2019 and Re-Certification Audit before 13.12.2020.

TUV India Pvt. Ltd., 601, Raheja Plaza - I, L.B.S. Marg, Ghalkoper (W), Mumbai - 400 088, India cert.hel@tuv-nord.com




# CERTIFICATIONS



IS: 694 (2010)



CM/L: 7800035818

IS: 1554 PART-I



CM/L: 3692272



## AWARDS



THYSSENKRUPP



THYSSENKRUPP



GE



SHNEIDER ELECTRIC

## CLIENTELE







SINCE 1997<sup>®</sup>

# MIRACLE CABLES<sup>®</sup>

Smart cable solutions

**Corporate Address :**

1203, Damji Shamji Business Galleria,  
LBS Marg, Kanjur Marg (W),  
Mumbai - 400 078. Maharashtra, India.  
Tel. : 022-25792011/12

**Factory Address Unit - I :**

K-29/2, MIDC, Additional MIDC,  
Anand Nagar, Opp. Bharat Serum,  
Ambarnath (E), Thane - 421501.  
Maharashtra, India.

**Factory Address Unit - II :**

First Floor, 309/A, Fourth Street,  
Dharman Nethaji Nagar,  
Alapakkam Main Road, Madhuravoyal,  
Chennai, Tamil Nadu - 600095, India.

**Email :** [Info@miraclecables.com](mailto:Info@miraclecables.com) | **Website :** [www.miraclecables.com](http://www.miraclecables.com)