deepcab®

Wires & Cables

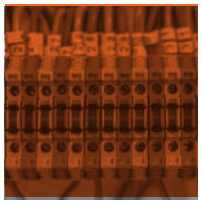
28+ Years
business legacy

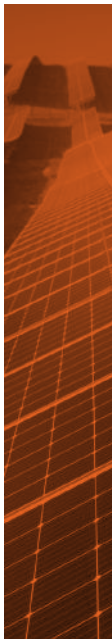
800+ SKUs
across industry segments

2 Million+
(20 Lac) meters of ready stock

"Powering Connections"

Our purpose is to power connections that drive progress by delivering high-performance, reliable solutions engineered in India and trusted for supporting industries, infrastructure, and innovation globally.

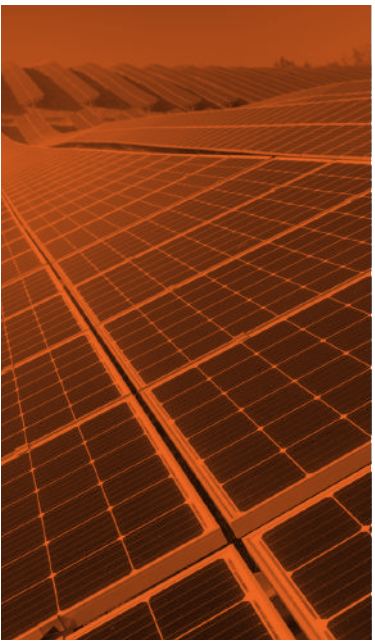


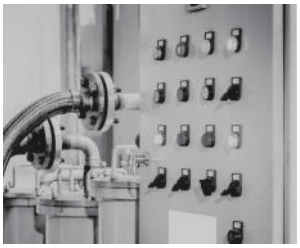


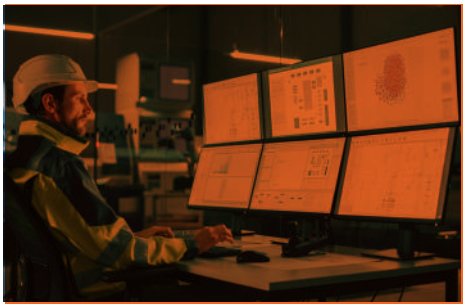
"Vision & Mission"

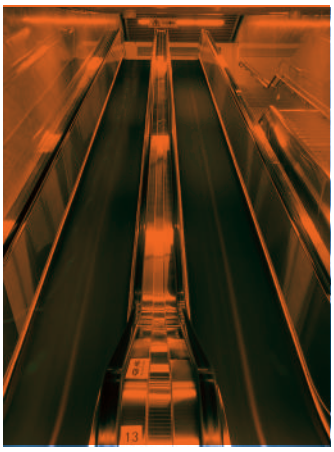
To become the globally trusted partner for future-focused businesses delivering scalable, engineered solutions that enable progress across industries, infrastructure, and next-generation projects.

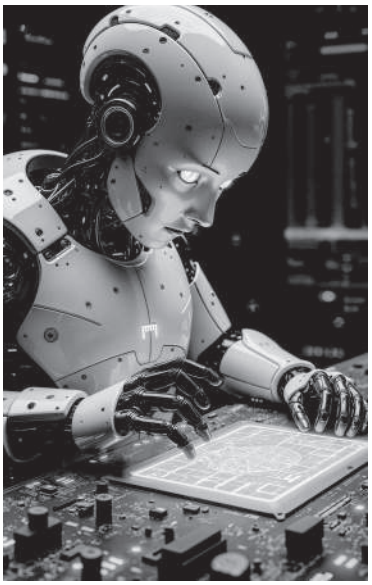
Powering success through dependable solutions and seamless service helping manufacturers, project developers, and distribution networks minimize downtime, optimize operations, and scale confidently.

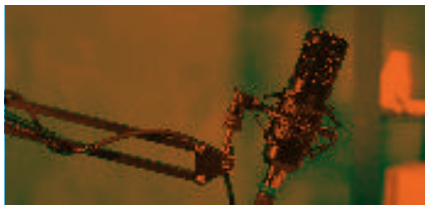












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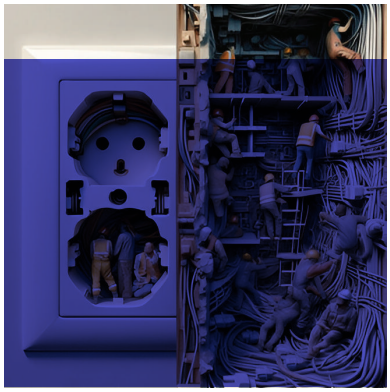
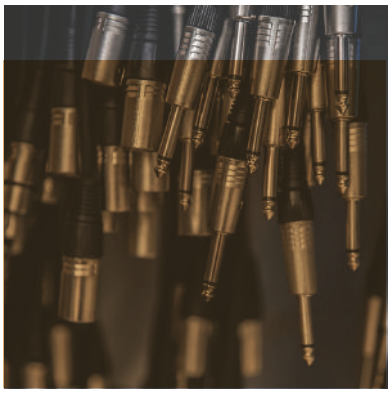




Control Cables

deepcab® Wires & Cables

Round Multicore Cable

<dc> deepcab Round Multicore Cable

Features

- Cable for low frequency transmission.
- Fine high quality copper strands of small cross section provide better reliable data transmission.
- Overall Mylar tape wrapping over cores improving Dielectric strength of the cable.
- High flexibility and low bending radius by using special PVC compound.

Application

- Machines & plant engineering construction.
- Electronic devices and computer systems.
- Measurement, control & instrumentation devices.
- Security & surveillance systems.

Construction

- Fine conductor strands of ATC - Annealed Tinned Copper / ABC - Annealed Bare Copper.
- PVC based core insulation.
- Cores laid up in layers with overall Mylar tape wrapping.
- Sheathing of special PVC based compound.

Technical Data

Mutual Capacitance :
C/C Maxi. 200 pf/m

Inductance Max :
Approx 1.25 mH/ km

Insulation Resistance :
> 20 MOhm x Km

Conductor Resistance :
As per conductor resistance chart

In Accordance to :
IS:694
EN 50288

Core Identification :
As per colour code chart

Test Voltage :
AC 1100 V

Rated Voltage :
250 V

Temperature Range :
Static -15 C to +70 C

ATC Round Multicore Cable	
Number of cores (No.)	Overall Dia (App.) (mm)
7/38 SWG (0.125 sq mm - 26 AWG)	
2	3.3
3	3.7
4	4.2
5	4.4
6	5.0
8	5.7
10	6.1
12	6.5
16	7.3
20	8.0
25	8.8
40	10.9
50	11.8

ATC Round Multicore Cable	
Number of cores (No.)	Overall Dia (App.) (mm)
14/38 SWG (0.25 sq mm - 23 AWG)	
2	4.0
3	4.2
4	5.2
5	5.6
6	5.7
8	6.5
10	6.9
12	7.9
16	8.4
20	9.5
25	10.8
40	11.5
50	13.4

*The number and diameter of conductor strands are for reference only.
The above data is indicative and may be revised without prior intimation.

deepcab® Wires & Cables

Round Multicore Cable

ABC Round Multicore Cable	
Number of cores (No.)	Overall Dia (App.) (mm)
16/0.2 (0.5 sq mm - 20 AWG)	
2	5.7
3	6.0
4	6.4
6	7.3
8	8.1
10	8.7
12	9.7
16	11.2
20	12.6
24	14.0
24/0.2 (0.75 sq mm - 18 AWG)	
2	6.2
3	6.4
4	7.5
6	8.3
8	9.1
10	10.6
12	10.9
16	12.3
20	13.5
24	15.2
14/0.3 (1 sq mm - 17 AWG)	
2	6.7
3	6.9
4	7.6
6	9.3
8	10.8
10	11.0
12	11.6
16	13.2
20	14.6
24	16.4

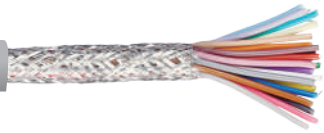
ABC Round Multicore Cable	
Number of cores (No.)	Overall Dia (App.) (mm)
22/0.3 (1.5 sq mm - 16 AWG)	
2	7.1
3	7.5
4	8.3
6	10.7
8	11.0
10	12.6
12	13.5
16	14.6
20	16.2
24	18.2
36/0.3 (2.5 sq mm - 14 AWG)	
2	8.5
3	8.8
4	10.1
6	12.2
8	13.2
10	15.4
12	15.9
16	17.8
20	19.8
24	22.2

*The number and diameter of conductor strands are for reference only.
The above data is indicative and may be revised without prior intimation.

deepcab® Wires & Cables

Braided Multicore Cable

<dc> deepcab Braided Multicore Cable



Features

- Fine high quality copper strands of small cross section provide better reliable data transmission.
- Protection from external electromagnetic field ensuring excellent data transmission reliability.
- High coverage of copper screen braiding.
- High flexibility and low bending radius by using special PVC compound

Application

- Control and signal cable in special purpose machines and measurement equipments.
- Electronics and computer systems.
- Data transmission and instrumentation applications.
- Useful in the milliampere range applications for computer systems, electronic control equipments, office machines, scales and wherever thin and precise transmission is required.

Construction

- Fine conductor strands of ATC - Annealed Tinned Copper / ABC - Annealed Bare Copper.
- PVC based core insulation.
- Cores laid up in layers with overall Mylar tape wrapping. Additional Aluminium tape 0.5 sq mm onwards for enhanced EMI protection.
- Screen braid of ATC - Annealed Tinned Copper.
- Sheathing of special PVC based compound.

Technical Data

Mutual Capacitance :
C/C Maxi. 200 pf/m
C/S Maxi. 400 pf/m

Inductance Max :
Approx 1.25 mH/ km

Insulation Resistance :
> 25 MOhm x Km

Conductor Resistance :
As per conductor resistance chart

In Accordance to :
VDE 0812
EN 50288

Core Identification :
As per colour code chart

Test Voltage :
AC 1100 V

Rated Voltage :
250 V

Temperature Range :
Static -15 C to +70 C

ATC Braided Multicore Cable	
Number of Cores (No.)	Approx overall Dia (mm)
7/38 SWG (0.125 sq mm - 26 AWG)	
2	3.5
3	3.9
4	4.6
5	4.9
6	5.5
8	6.0
10	6.6
12	7.1
16	7.7
20	8.8
25	9.2
40	11.3
50	13.0

ATC Braided Multicore Cable	
Number of Cores (No.)	Approx overall Dia (mm)
14/38 SWG (0.25 sq mm - 23 AWG)	
2	4.5
3	4.8
4	5.6
5	6.0
6	6.4
8	7.3
10	8.0
12	8.3
16	8.7
20	9.6
25	11.2
40	12.2
50	14.0

*The number and diameter of conductor strands are for reference only.
The above data is indicative and may be revised without prior intimation.

Braided Multicore Cable

ATC Braided Multicore Cable	
Number of cores (No.)	Overall Dia (App.) (mm)
16/0.2 (0.5 sq mm - 20 AWG)	
2	6.0
3	6.5
4	7.0
6	8.0
8	8.9
10	10.0
12	10.7
16	13.0
20	13.5
24	15.5
24/0.2 (0.75 sq mm -18 AWG)	
2	6.5
3	7.0
4	7.5
6	9.3
8	10.0
10	11.4
12	12.0
16	14.0
20	15.8
24	16.5
32/0.2 mm (1 sq mm - 17 AWG)	
2	7.0
3	7.4
4	8.3
6	9.5
8	10.5
10	11.5
12	12.6
16	14.5
20	15.5
24	16.2
48/0.2 mm (1.5 sq mm - 16 AWG)	
2	7.5
3	8.2
4	8.9
6	11.0
8	12.3
10	13.5
12	14.0
16	17.0
20	19.0
24	21.0

ABC Braided Multicore Cable	
Number of cores (No.)	Overall Dia (App.) (mm)
36/0.3 mm (2.5 sq mm - 14 AWG)	
2	9.1
3	9.7
4	11.2
6	13.0
8	14.0
10	16.0
12	18.0
16	21.0
20	22.4
24	24.0
56/0.3 mm (4.0 sq mm - 12 AWG)	
2	10.5
3	11.1
4	14.2
84/0.3 mm (6.0 sq mm - 10 AWG)	
2	13.8
3	14.5
4	15.4
140/0.3 mm (10.0 sq mm - 8 AWG)	
2	16.5
3	17.5
4	18.2
224/0.3 mm (16.0 sq mm - 6 AWG)	
2	20.1
3	21.9
4	24.6
350/0.3 mm (25.0 sq mm - 6 AWG)	
2	24.9
3	26.7
4	30.0
490/0.3 mm (35.0 sq mm - 6 AWG)	
2	27.5
3	29.5
4	33.1

*The number and diameter of conductor strands are for reference only.
The above data is indicative and may be revised without prior intimation.

deepcab®
Wires & Cables

Single Core Hookup Wire

<dc> deepcab Hookup Wire

Features

- Reliable for low voltage applications.
- High flexibility and low bending radius by using special PVC compound.

Application

- Internal wiring of computers and data processing equipments.
- Control panels, meters and low voltage appliances.

Construction

- Solid conductor of ATC - Annealed Tinned Copper.
- Insulation of special PVC based compound.

Number / Dia of Conductor Strands (Nom.)	Dia of Conductor Strands (Nom.)	Overall Diameter (Nom.)	Current Rating AC
(No. / SWG)	(inch)	(mm)	(Ampere)
1/31	0.0116	0.60	0.3
1/28	0.0148	1.10	1.5
1/26	0.0180	1.35	1.7
1/23	0.0240	1.70	2.5

*The number and diameter of conductor strands are for reference only.
The above data is indicative and may be revised without prior intimation.

Single Core Flexible Wire

<dc> deepcab Flexible Wire

Features

- Fine high quality copper strands provide reliable transmission.
- High flexibility and low bending radius by using special PVC compound.

Application

- Wealth applications like PCB connections and inter-connection circuits.
- Harness fabrication & automotives.

Construction

- Fine conductor strands of ATC - Annealed Tinned Copper.
- Insulation of special PVC based compound.

Premium

Number / Dia of Conductor Strands (Nom.)	Dia of Conductor Strands (Nom.)	Overall Diameter (Nom.)	Current Rating AC
(No. / SWG)	(inch)	(mm)	(Ampere)
7/42	0.0040	0.80	0.25
7/38	0.0060	1.40	1.0
7/36	0.0076	1.45	1.5
14/38	0.0060	1.70	2.0
14/36	0.0076	1.90	3.0
23/38	0.0060	2.20	4.0
23/36	0.0076	2.45	6.0
40/38	0.0060	2.80	8.0

Standard

Number / Dia of Conductor Strands (Nom.)	Dia of Conductor Strands (Nom.)	Overall Diameter (Nom.)	Current Rating AC
(No. / SWG)	(inch)	(mm)	(Ampere)
7/39	0.0052	1.40	0.5
14/39	0.0052	1.70	1.5
23/39	0.0052	2.30	2.5

*The number and diameter of conductor strands are for reference only.
The above data is indicative and may be revised without prior intimation.

deepcab®
Wires & Cables

Twin Twisted Flexible Wire

Features

- High conductivity using fine copper strands.
- Twisted pairs to negate signal interferenece.
- High flexibility and low bending radius by using special PVC compound.

Application

- Audio signal wiring in home and professional sound systems.
- Interconnection cables for electronic devices and control panels.
- Flexible wiring in automotive and industrial equipment.

Construction

- Fine conductor strands of ATC - Annealed Tinned Copper.
- Insulation of special PVC based compound.
- Two round cores twisted together to form a pair.

Number / Dia of Conductor Strands (Nom.)	Dia of Conductor Strands (Nom.)	Overall Diameter (Nom.)	Current Rating AC
(No. / SWG)	(inch)	(mm)	(Ampere)
14/40	0.0048	2 x 0.8	1.0
23/40	0.0048	2 x 1.0	2.0
40/40	0.0048	2 x 1.2	4.0

*The number and diameter of conductor strands are for reference only.
The above data is indicative and may be revised without prior intimation.

deepcab®
Wires & Cables

Ribbon Flat Cable

Features

- Lightweight and flexible, allowing for use in tight spaces.
- High flexibility and low bending radius by using special PVC compound.

Application

- Internal wiring of computers and data processing equipments.
- Harness fabrication & automotives.

Construction

- Fine conductor strands of ATC - Annealed Tinned Copper.
- Insulation of special PVC based compound.

Technical Data

Mutual Capacitance :
C/C Maxi. 50 pf/m

Insulation Resistance :
> 20 MOhm x Km

Conductor Resistance :
See Chart Deepcab Flexible wire

In Accordance to :
IS:694
EN 50288

Core Identification :
As per colour code chart
as per dc deepcab colour code chart

Test Voltage :
AC 1100 V

Rated voltage :
250 V

Temperature Range :
Static -15 C to +70 C

No. of Strands / Size	Dia of Conductor Strands (Nom.)	Dia of Conductor Strands (Nom.)	Overall Diameter (Nom.)	Current Rating AC
(No. / SWG)	(inch)	(mm)	(mm)	(Ampere)
7/40	0.0048	0.122	1.20	0.25
7/38	0.0060	0.152	1.30	1.0
7/36	0.0076	0.193	1.35	1.5
14/38	0.0060	0.152	1.80	2.0
14/36	0.0076	0.193	1.90	3.0

*The number and diameter of conductor strands are for reference only.
The above data is indicative and may be revised without prior intimation.

Communication Cable

deepcab®
Wires & Cables

Co-Axial Cable

Features

- Braided shielding to protect signal from external interference.
- Resistant from Water & internal Corrosion.
- High flexibility and low bending radius by using special PVC compound.

Application

- Transmission of RF signals.
- Power for voice, data & video applications.
- CATV, DTH & Broadband

Construction

- Solid conductor of ABC - Annealed Bare Copper.
- LDPE insulation with alloy wire braiding.
- Sheathing of special PVC based compound.

Type	Characteristic Impedance	Capacitance	Attenuation at 200 MHz		Inner Conductor	Dielectric Insulation	Overall
	(Ohm)	(pF/m)	(db/100 ft)	(db/100 m)	Dia. (mm)	Dia.(mm)	Dia. (mm)
RG-58 C/U	50±2	105	11.5	37.9	0.78(ft)	2.70 (2Y)	4.95 (Y)
RG-174 A/U	50±2	105	11.0	37.2	0.48(ft)	1.50 (2Y)	2.80 (Y)
RG-213 /U	50±2	101	3.3	10.8	2.26(fb)	7.25 (2Y)	10.30 (Y)
RG-11 A/U	75±3	68	1.8	5.8	1.63 (sb)	7.50 (2Y)	10.5 (Y)
RG-59 B/U	75±3	68	3.8	12.5	0.71(st)	3.40 (2Y)	6.0 (Y)

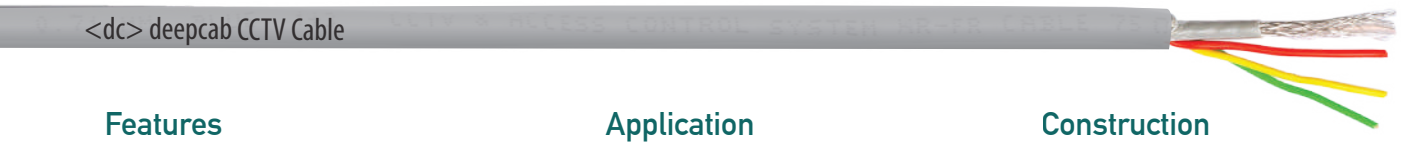
Conductor Specification: s: solid conductor, f: flexible/stranded conductor, b: bare copper, t: tin plated, v: silver plated

Insulation Specification: Y: PVC, YY: Double PVC sheathing, 2Y: PE-Solid insulation, 3Y: PE-Air spaced insulation

(Dielectric/ Sheath): 5Y: fluorine polymere PTEF, 6Y: fluorine polymere FEP

*The number and diameter of conductor strands are for reference only.
The above data is only indicative and may be revised without prior intimation.

CCTV Cables



Features

- Combination of power supply & communication.
- Braided shielding to prevent distortion.
- Highly flexibility and low bending radius by using special PVC compound.

Application

- Power supply and communication signals for CCTV cameras.
- Transmission of complete video frequency range with minimum attenuation.

Construction

- Solid conductor of ABC - Annealed Bare Copper.
- 1 Coaxial core insulated with Polyethylene, braided and sheathed with PVC. Rest cores insulated with PVC.
- Sheathing of special PVC based compound.

Coaxial Cores		PVC Cores	
Number of cores	Dia of Conductor Strands (Nom.)	Number of cores	Size of strand
(No.)	(SWG / mm)	(No.)	(SWG / mm)
1	14/52	3	14/52
1	0.71mm	3	14/52
1	0.71mm	3	14/40

*The number and diameter of conductor strands are for reference only.
The above data is indicative and may be revised without prior intimation.

deepcab®
Wires & Cables

Telephone Switch Board Cable

<dc> deepcab Telephone Cable

Features

- Manufactured with solid annealed copper conductors for reliable signal transmission.
- Twisted pairs minimize cross-talk, ensuring clear communication in high-rise buildings, offices, and residential complexes.
- High flexibility and low bending radius by using special PVC compound.

Application

- Appropriate for environments requiring reliable voice and data communication.
- Designed for switchboard connections and telecommunication networks.
- Ideal internal telephone wiring in high-rise buildings, offices, factories, and hotels.

Construction

- Solid conductor strand of ATC - Annealed Tinned Copper / ABC - Annealed Bare Copper.
- Twisted pairs of high quality Polyethylene based insulation and a nylon rip cord.
- Sheathing of special PVC based compound.

Technical Data

Mutual Capacitance :
Max 50 nf/km

Capacitance Unbalance (Pr – Pr) :
Approx 250pf/ km

Insulation Resistance :
> 50 MOhm x Km

Conductor Resistance :
As per conductor resistance chart

In Accordance to :
ITD specifications S/WS 113C

Core Identification :
White-Blue, White-Orange, White-Green, White Brown, White-Grey, Red-Blue, Red-Orange, Red Green, Red-Brown, Red-Grey, Black-Blue, Black Orange, Black-Green, Black-Brown, Black-Grey, Yellow-Blue, Yellow-Orange, Yellow-Green, Yellow Brown, Yellow-Grey

Test Voltage :
AC 1100 V

Rated voltage :
250 V

Temperature Range :
Static -15 C to +70 C

Number / Dia of Conductor Strands (Nom.)	No. of Pairs
(No. / mm)	(No.)
1/0.5	1
1/0.5	2
1/0.5	3
1/0.5	4
1/0.5	5
1/0.5	10
1/0.5	20
1/0.5	25
1/0.5	50
1/0.5	100

*The number and diameter of conductor strands are for reference only.
The above data is indicative and may be revised without prior intimation.

deepcab®
Wires & Cables

CAT 6 - LAN Cable

Features

- Excellent transmission over twisted pairs.
- Central separator spline reduces crosstalk for improved data integrity.
- Supports gigabit ethernet speeds for seamless, lag-free connectivity.

Application

- Networking - Modems, Switches, Routers, Servers & other network equipments.
- Data Centers and Building backbones - Data transmission and reliable inter-floor connectivity.
- Powers smart home technologies and multimedia applications, facilitating seamless wireless coverage and high-definition audio-video streaming.

Construction

- Solid (generally) / Fine conductor strands of ABC - Annealed Bare Copper.
- 2 / 4 (generally) twisted pairs of high quality Polyethylene based insulation separated with a spline.
- Sheathing of PVC (generally) / Polyethylene based compund.

Technical Data

Mutual Capacitance :
C/C Maxi. 5.1 nf/100m

Capacitance Unbalance (Pr – Gr) :
Maxi. 330 pF/100m

Insulation Resistance :
> 500 MOhm/100m

DC resistance :
9.3 Ohm/100m

In Accordance to :
ISO/IEC 11801
ANSI/TIA-568

Core Identification :

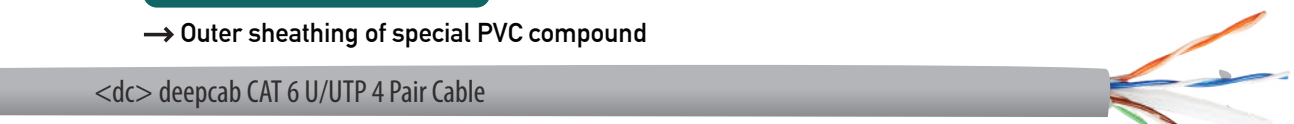
	Wire 1	Wire 2
Pair 1	White - Orange Stripe	Orange
Pair 2	White - Green Stripe	Green
Pair 3	White - Blue Stripe	Blue
Pair 4	White - Brown Stripe	Brown

Dielectric Strength :
1/1 DC kV/min

Attenuation :
5.3 dB/100m @ 8 MHz

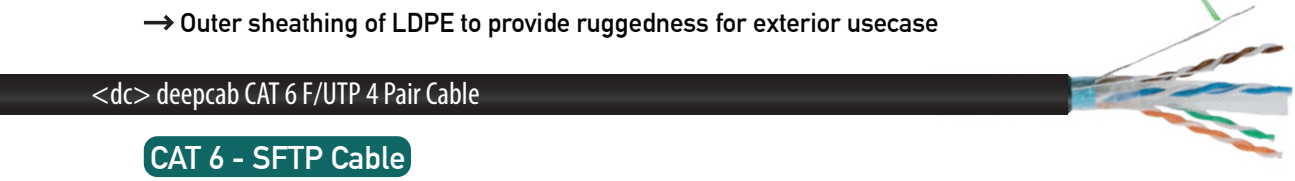
CAT 6 - UTP Indoor Cable

→ Outer sheathing of special PVC compound



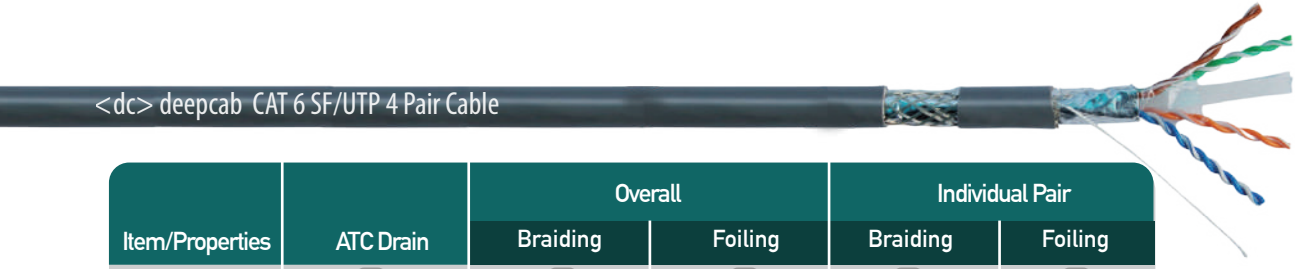
CAT 6 - UTP Outdoor Cable

→ Outer sheathing of LDPE to provide ruggedness for exterior usecase



CAT 6 - SFTP Cable

→ Outer sheathing of special PVC compound. → Alloy braiding with Aluminium tape & ATC drain.



Item/Properties	ATC Drain	Overall		Individual Pair	
		Braiding	Foiling	Braiding	Foiling
U / UTP	☐	☐	☐	☐	☐
F / UTP	☑	☐	☑	☐	☐
S / UTP	☑	☑	☐	☐	☐
F / FTP	☑	☐	☑	☐	☑
S / FTP	☑	☑	☐	☐	☑
S / STP	☑	☑	☐	☑	☐
SF/ UTP	☑	☑	☑	☐	☐
SF/ FTP	☑	☑	☑	☐	☑
SF/SFTP	☑	☑	☑	☑	☑

*The number and diameter of conductor strands are for reference only.
The above data is indicative and may be revised without prior intimation.

Audio-Video Cable

deepcab®
Wires & Cables

Microphone Cable

<dc> deepcab Microphone Cable

Features
- Clear signal transmission using high-purity copper conductor.
- Optimized capacitance and noise rejection via balanced twisted pair design.
- Low interference pickup with overall spiral or braided shielding.
- High flexibility and low bending radius by using special PVC compound.

Application
- Microphone wiring in studios and live stage environments.
- Audio signal transfer for mixers and recording equipment.
- AV installations in halls, houses of worship, and events.
- Broadcast and content creation setups.

Construction
- Fine conductor strands of ATC - Annealed Tinned Copper / ABC - Annealed Bare Copper.
- Polyethylene based core insulation. Cores covered in cotton yarn.
- Screen braiding/lapping of ABC - Annealed Bare Copper.
- Sheathing of special PVC based compound.

Technical Data

Conductor Resistance : As per conductor resistance chart

In Accordance to : VDE 0812

Core Identification : As per colour code chart

Test Voltage : AC 1100 V

Rated voltage : 250 V

Static -15 C to +70 C

Variant Name	Number / Dia of Conductor Strands (Nom.)	Core Conductors Type	No. of Cores	Screening Type	Screening Coverage	Approx overall Dia
(Type)	(No./SWG)	(Type)	(No.)	(Type)	(%)	(mm)
Premium	50/40	ABC - ABC	2	Braiding	100	6.3
Premium	19/40	ABC - ABC	2	Braiding	100	6.1
Deluxe	19/40	ABC - ABC	2	Braiding	90	6.1
Ultra	19/40	ABC - ABC	2	Braiding	80	6.1
Superior	19/40	ABC - ABC	2	Braiding	70	6.1
Premium	14/36	ATC - ATC	2	Braiding	100	6.2

Slim Microphone Cable

Premium	20/40 (20/0.10mm)	ABC - ATC	2	Shielding	100	4.6

Lapping Microphone Cable

Premium	19/40	ATC - ATC	2	Lapping	100	6.1
Premium	20/40	ATC - ATC	2	Lapping	100	3.5
Premium	25/40	ATC - ATC	2	Lapping	100	6.2

*The number and diameter of conductor strands are for reference only.
The above data is indicative and may be revised without prior intimation.

deepcab®
Wires & Cables

Flexible Speaker Cable

Features

- Efficient audio signal delivery using high-conductivity copper strands.
- Clear sound reproduction with consistent conductor insulation thickness.
- Reliable performance with minimal signal drop across long lengths.
- High flexibility and low bending radius by using special PVC compound.

Application

- Loudspeaker connections in public address and audio systems.
- Studio, club, and auditorium speaker wiring.
- Home theater speaker installations.
- General-purpose sound system cabling.

Construction

- Fine conductor strands of ABC - Annealed Bare Copper.
- PVC based core insulation.
- Fiber for improved strength & flexibility.
- Sheathing of special PVC based compound.

Technical Data

Conductor Resistance :
As per conductor resistance chart

In Accordance to :
IS: 694

Core Identification :
As per colour code chart

Test Voltage :
AC 1100 V

Rated voltage :
250 V

Temperature Range :
Static -15 C to +70 C

Number / Dia of Conductor Strands (Nom.)	No. of Cores (No.)	Approx overall Dia
(No. / SWG)	(mm)	(mm)
40/0048	2	6.5
70/0048	2	7.9
100/0048	2	7.4
100/0048	4	9.3
100/0048	8	11.8
150/0048	2	9.0
150/0048	4	10.7
200/0048	2	9.2
200/0048	4	10.8
200/0048	8	14.7

*The number and diameter of conductor strands are for reference only.
The above data is indicative and may be revised without prior intimation.

Twisted Pair ATC Speaker Cable

→ Fine conductor strands of ATC - Annealed Tinned Copper with cores twisted in pairs for reduced cross talk.

Dia of Conductor Strands (Nom.)	No. of Cores	Approx overall Dia
(AWG)	(No.)	(mm)
14	2	8
16	2	6
18	2	5

*The number and diameter of conductor strands are for reference only.
The above data is indicative and may be revised without prior intimation.

deepcab®
Wires & Cables

Twin Parallel Speaker Cable

Features

- Superior electrical conductivity using high purity copper.
- Dual-core parallel conductor design for balanced signal transmission.
- Colour stripe on insulation for easy polarity identification.
- Flexible design enabling easy installation in confined spaces.

Application

- Home audio and home theater speaker connections.
- Professional sound reinforcement systems.
- Fixed installation in commercial sound environments.
- Multi-room and distributed audio setups.

Construction

- Fine conductor strands of ABC - Annealed Bare Copper.
- PVC based core insulation.
- Two round cores arranged parallelly in a flat configuration.
- One core marked with coloured stripe along the length.

Technical Data

Conductor Resistance :
As per conductor resistance chart

Core Identification :
As per colour code chart

Test Voltage :
AC 1100 V

Rated voltage :
250 V

Temperature Range :
Static -15 C to +70 C

Number / Dia of Conductor Strands (Nom.) (No. / inch)
14/0.0040
14/0.0060
23/0.0060

Number / Dia of Conductor Strands (Nom.) (No. / inch)
14/0.0076
23/0.0076
40/0.0076

*The number and diameter of conductor strands are for reference only.
The above data is indicative and may be revised without prior intimation.

Twin Parallel Transparent Speaker Cable

Number / Dia of Conductor Strands (Nom.) (No. / inch)
14/0.0060
14/0.0076
23/0.0060
23/0.0076

Number / Dia of Conductor Strands (Nom.) (No. / inch)
40/0.0060
40/0.0076
70/0.0060
70/0.0076

*The number and diameter of conductor strands are for reference only.
The above data is indicative and may be revised without prior intimation.

deepcab®
Wires & Cables

Audio Snake Cable

Features

- High conductivity using fine quality copper strands.
- Minimized electromagnetic interference using robust screen lapping.
- Enhanced tensile strength with reinforced fiber.
- High flexibility and low bending radius by using special PVC compound.

Application

- Multi-channel audio signal transmission in live sound and recording studios.
- Stage and concert PA system cabling.
- Professional audio installations in theaters and auditoriums.
- Portable audio setups requiring durable, flexible multi-core cable solutions.

Construction

- Fine conductor strands of ABC - Annealed Bare Copper.
- Polyethylene based core insulation with Mylar tape wrapping.
- Screen Lapping of ABC - Annealed Bare Copper and PVC based inner sheathing.
- Fiber for improved strength & flexibility with outer sheathing of special PVC based compound

Technical Data

Conductor Resistance :
As per conductor resistance chart

In Accordance to :
VDE 0812

Core Identification :
As per colour code chart

Test Voltage :
AC 1100 V

Rated voltage :
250 V

Temperature Range :
Static -15 C to +70 C

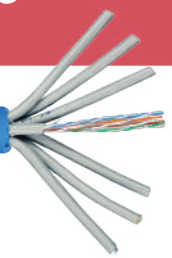
Number / Dia of Conductor Strands (Nom.)	No. of Channels	Screening Coverage	Approx overall Dia
(No. / SWG)	(No.)	(%)	(mm)
19/40	4	100	11.2
19/40	8	100	15.1
19/40	12	100	17.2
19/40	16	100	21.5
19/40	24	100	23.5
19/40	32	100	27.4

*The number and diameter of conductor strands are for reference only.
The above data is indicative and may be revised without prior intimation.

deepcab®
Wires & Cables

Catsnake Cable

<dc> deepcab Catsnake Cable



Features

- Excellent transmission over twisted pairs.
- Central separator spline reduces crosstalk for improved audio integrity.
- Rugged construction suitable for demanding stage and studio environments.

Application

- Perfect for live sound and stage setups requiring multi-channel audio connections.
- Suitable for broadcast and studio environments for clear audio, video, or data routing.
- Ideal for theatrical, conference, and event installations where organized, durable cabling is essential.

Construction

- Solid (generally) / Fine conductor strands of ABC - Annealed Bare Copper.
- Four twisted pairs of high quality Polyethylene insulation separated with a spline and PVC based inner sheath forming a channel.
- Multiple channels laid up in layers with overall Mylar tape wrapping and outer sheathing of special PVC based compound.

Technical Data

Dielectric Strength :
1/1 DC kV/min

Rated voltage :
300 V RMS

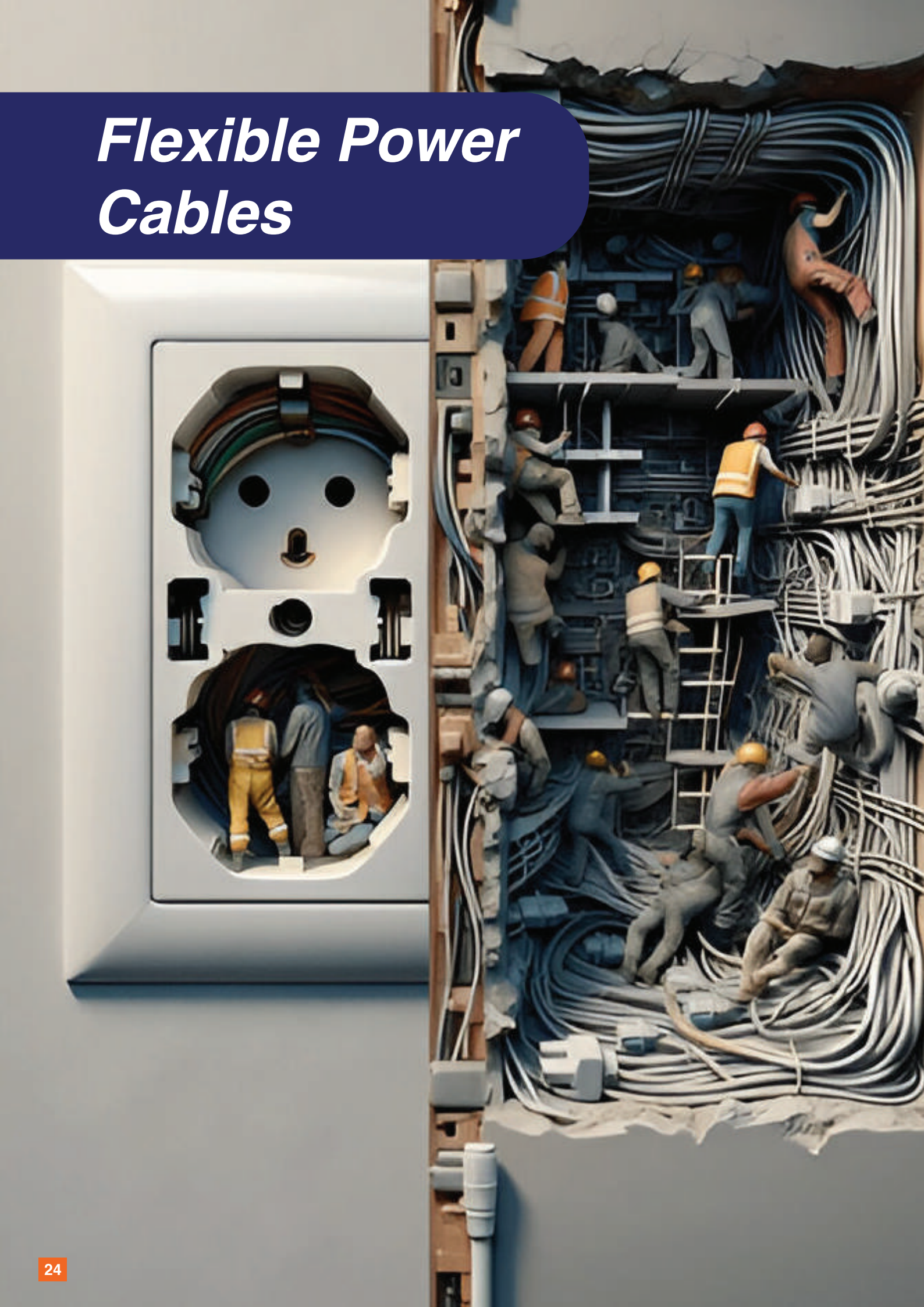
Core Identification :

	Wire 1	Wire 2
Pair 1	White - Orange Stripe	Orange
Pair 2	White - Green Stripe	Blue
Pair 3	White - Blue Stripe	Green
Pair 4	White - Brown Stripe	Brown

No. of Channels	Approx overall Dia
(No.)	(No.)
4	17
7	20
8	23
12	27

*The number and diameter of conductor strands are for reference only.
The above data is indicative and may be revised without prior intimation.

Flexible Power Cables



deepcab® Wires & Cables

Multistrand Single Core Flexible Wire

<dc> deepcab Multistrand Wire

Features

- High quality copper conductors for efficient power transmission and energy saving.
- High Fire Retardancy (Making it a very safe product).
- Low Emission of Toxic Gases (A highly safe product in Fire situations).

Application

- Multistrand – House Wires are mainly used for wiring domestic and commercial structures.
- Concealed wiring.
- Installation in lighting, fittings and appliances upto 1100 V (AC)

Construction

- Fine conductor strands of ABC - Annealed Bare Copper.
- PVC based core insulation.
- Insulation of special PVC based compound.

Technical Data

Rated voltage : 1100 V

In Accordance to : IS:694

Temperature Range : -20 C to +70 C

Premium

Cross Sectional Area of Conductor (Nom.)	Number / Dia of Conductor Strands (Nom.)	Current Rating
(sq mm)	(No. / mm)	(Ampere)
0.50	16/0.20	5
0.75	24/0.20	8
1.00	32/0.20	13
1.5	30/0.25	17
2.5	50/0.25	24
4	56/0.30	30
6	84/0.30	38
10	140/0.30	52
16	224/0.30	70
25	350/0.30	88
35	490/0.30	110
50	252/0.50	145
70	354/0.50	215
95	484/0.50	260
120	608/0.50	305
150	750/0.50	355
185	925/0.50	415
240	1210/0.50	500
300	1527/0.50	585
400	2036/0.50	695

Standard

Cross Sectional Area of Conductor (Nom.)	Number / Dia of Conductor Strands (Nom.)	Current Rating
(sq mm)	(No. / mm)	(Ampere)
0.75	10/0.30	8
1.00	14/0.30	12
1.5	22/0.30	16
2.5	36/0.30	22
4	56/0.30	29
6	84/0.30	37
10	140/0.30	51
16	224/0.30	68

*The number and diameter of conductor strands are for reference only.
The above data is indicative and may be revised without prior intimation.

deepcab®
Wires & Cables

Round Multicore Flexible Cable

<dc> deepcab Round Multicore Cable

Features

- Cable for high power use.
- Overall Mylar tape wrapping over cores improving Dielectric strength of the cable.
- Fine high quality copper strands of small cross section provide better reliable data transmission.
- High flexibility and low bending radius by using special PVC compound.

Application

- Power cords.
- High power appliances.
- Machine tools & eqipments used in heat zones.
- Electronic scales and weighing machines.

Construction

- Fine conductor strands of ABC - Annealed Bare Copper.
- PVC based core insulation.
- Cores laid up in layers with Overall Mylar tape wrapping.
- Sheathing of special PVC based compound.

Technical Data

Rated voltage :
450/750 V

In Accordance to :
IS:694

Temperature Range :
-20 C to +70 C

Cross Sectional Area of Conductor (Nom.)	Thickness of PVC Insulation (Min.)	Number / Dia of Conductor Strands (Nom.)	Overall Dia (App.)			Current Rating AC
			Two Core	Three Core	Four Core	
(sq mm)	(mm)	(No. / mm)	(mm)	(mm)	(mm)	(Ampere)
0.5	0.6	16/0.20	5.7	6.0	6.4	6
0.75	0.6	24/0.20	6.2	6.4	7.5	9
1	0.6	32/0.20	6.7	6.9	7.6	14
1.5	0.6	30/0.25	7.1	7.5	8.3	18
2.5	0.7	50/0.25	8.5	8.8	10.1	24
4	0.8	56/0.30	9.9	10.8	12.4	32
6	0.8	84/0.30	12.0	12.3	14.1	38
10	1.0	140/0.30	14.5	15.5	18.0	52
16	1.0	224/0.30	18.2	19.0	21.5	70
25	1.2	350/0.30	21.5	23.0	26.0	88
35	1.2	490/0.30	23.5	25.0	28.5	110
50	1.4	700/0.30	28.0	30.0	34.0	145
70	1.5	980/0.30	32.5	34.5	39.0	215
95	1.6	1330/0.30	36.5	39.0	44.0	260

*The number and diameter of conductor strands are for reference only.
The above data is only indicative and may be revised without prior intimation.

deepcab®
Wires & Cables

Flat Multicore Flexible Cable

<dc> deepcab Flat Multicore Cable

Features

- High quality copper conductors for efficient power transmission and energy saving.
- Designed for easy installation in confined spaces due to its flat shape.
- Made with durable, high-quality insulation to resist tangling and wear.
- High flexibility and low bending radius by using special PVC compound.

Application

- Modular lighting systems.
- Switchgear and panel wiring.
- Internal wiring of consumer appliances.
- Ducts, embedded conduits, and raceways.

Construction

- Fine conductor strands of ABC - Annealed Bare Copper.
- PVC based core insulation.
- Two cores arranged parallelly in a flat configuration.
- Sheathing of special PVC based compound.

Technical Data

Rated voltage :
450/750 V

In Accordance to :
IS:694

Temperature Range :
-20 C to +70 C

Cross Sectional Area of Conductor (Nom.)	Number / Dia of Conductor Strands (Nom.)	No. of Cores	Overall Dimensions (App.) W x H
(Sq mm)	(No. / mm)	(No.)	(mm)
~0.22	14/0.15	2	3.4 × 5.5
0.5	16/0.196	2	4.2 × 6.5
0.75	24/0.196	2	4.2 × 6.5
1	32/0.20	2	8.0 × 5.4
1.5	22/0.30	2	8.6 × 5.6
2.5	36/0.30	2	10.5 × 6.6
4	56/0.30	2	12.0 × 7.4
6	84/0.30	2	13.0 × 8.0
10	140/0.30	2	16.0 × 9.6
16	126/0.40	2	18.5 × 11.0

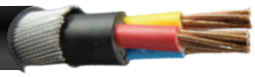
*The number and diameter of conductor strands are for reference only.
The above data is only indicative and may be revised without prior intimation.

Armoured Power Cable

deepcab® Wires & Cables

Copper Armoured Cable

<dc> deepcab Armoured Cable



Features

- Cable for fixed high power installations in industrial applications.
- Armouring to provide enhanced mechanical protection.
- Excellent abrasion resistance for enhanced durability in rugged environments.
- High temperature withstanding by using special PVC compound.

Application

- Power cable networks.
- Underground systems.
- Suitable for powering heavy industrial machinery requiring high reliability and protection.
- Rugged applications like power stations, defence, marines, airports, railways & telecommunications.

Construction

- Conductor strands of ABC - Annealed Bare Copper.
- Cores insulated with PVC/XLPE and inner sheath with PVC.
- Armouring of steel wires/strips.
- Outer sheathing of special PVC based compound.

Technical Data

Rated voltage : 1100 V

In Accordance to : IS:1554 / IS:7098

Temperature Range : -20 C to +70 C

PVC Insulated Copper Armoured Power Cable - IS:1554

Cross Sectional Area of Conductor 2,3,4 Core(Nom.)	Cross Sectional Area of Conductor in case of 3.5 Core (Nom.)	Thickness of PVC Insulation (Min.)	Overall Diameter (App.)				Current Rating AC
			2 Core	3 Core	3.5 Core	4 Core	
(sq mm)	(sq mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(Ampere)
1.5	-	0.8	-	14.0	-	14.5	17
2.5	-	0.9	-	15.0	-	16.0	24
4	-	1.0	-	16.5	-	17.5	30
6	-	1	-	17.5	-	19.0	38
10	-	1.0	-	19.5	-	23.0	50
16	-	1.0	20.4	20.2	-	23.8	64
25	25/16	1.2	22.4	22.9	25.4	25.2	81
35	35/16	1.2	23.4	24.7	26.4	27.8	99
50	50/25	1.4	26.2	28.2	30.0	32.7	125
70	70/35	1.4	28.3	32.0	34.9	35.8	150
95	95/50	1.6	32.6	36.2	38.9	40.6	175

*The number and diameter of conductor strands are for reference only.
The above data is only indicative and may be revised without prior intimation.

XLPE Insulated Copper Armoured Power Cable - IS:7098

"Cross Sectional Area of Conductor 2,3,4 Core (Nom.)"	Cross Sectional Area of Conductor in case of 3.5 Core (Nom.)	Thickness of XLPE Insulation (Min.)	Overall Diameter (App.)				Current Rating in Air
			2 Core	3 Core	3.5 Core	4 Core	
(Sq mm)	(Sq mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(Ampere)
16	-	0.7	-	-	-	22.8	79
25	25/16	0.9	21.2	21.7	23.8	23.8	108
35	35/16	0.9	22.2	23.8	25.5	26.0	132
50	50/25	1.0	24.3	26.5	29.0	29.5	162
70	70/35	1.1	27.1	31.3	34.0	34.1	198
95	95/50	1.1	30.8	33.5	37.6	37.9	240

*The number and diameter of conductor strands are for reference only.
The above data is only indicative and may be revised without prior intimation.

Application Based Speciality Cable

deepcab® Wires & Cables

BMS Cable

Features

- Optimized signal transmission for analogue and digital signals using high quality copper strands.
- Enhanced data integrity with electrostatic screen.
- High flexibility and low bending radius by using special PVC compound.

Application

- Control & monitoring in Building Management Systems (BMS).
- Signal & measuring systems in industrial plants.
- Renewable energy installations.

Construction

- Fine conductor strands of ABC - Annealed Bare Copper.
- Polyethylene/PVC based core insulation. Drain wire of ATC - Annealed Tinned Copper and overall Aluminium tape wrapping.
- Rip cord under outer sheathing of special PVC based compound.

Technical Data

Test Voltage : AC 1100 V

Rated voltage : 300 V

Temperature Range : -20 C to +70 C

No. of Cores	Overall Diameter (App.)for Cross Sectional Area of Conductor				
	0.25 sqmm	0.5 sqmm	0.75 sqmm	1 sqmm	1.5 sqmm
(No.)	(mm)	(mm)	(mm)	(mm)	(mm)
2	3.8	4.8	5.2	5.6	6.6
3	4.1	5.0	5.5	5.9	7.0
4	4.5	5.4	6.0	6.4	7.6
6	5.4	6.3	7.0	7.6	9.0
8	6.0	7.0	7.8	8.4	10.1
10	6.8	7.9	8.8	9.5	11.5
12	6.9	8.1	9.1	9.8	11.9
16	7.6	9.0	10.0	10.9	13.2
20	8.3	9.9	11.1	12.1	14.7
24	9.2	11.0	12.3	13.4	16.4

*The above data is only indicative and may be revised without prior intimation.
The number and diameter of conductor strands are for reference only.

deepcab®
Wires & Cables

Fire Alarm Cable

<dc> deepcab Fire Alarm Cable

Features
- Flame retardant and fire resistant, ensuring Operational integrity during emergencies.
- Electrostatic screen for enhanced signal integrity.
- Low smoke zero halogen (LSZH), flame retardant construction.

Application
- Fire and smoke detector wiring.
- Fire alarm panels and sounders.
- Fire command center circuits in buildings, hospitals, schools, and complexes.

Construction
- Conductor strands of Annealed Bare Copper (ABC) wrapped with Mica (fire-resistant) tape and XLPE based core insulation.
- Cores wrapped in Glass Fiber tape. Drain wire of ATC - Annealed Tinned Copper.
- Overall Aluminium Tape wrapping and outer sheathing of LSZH compound.

Technical Data

Test Voltage : AC 1100 V

Rated voltage : 300/500 V

Temperature Range : -15 C to +70 C

Cross Sectional Area of Conductor (Nom.)	Overall Diameter (App.)		
	2 Core	3 Core	4 Core
(Sq mm)	(mm)	(mm)	(mm)
1.5	10.0	10.8	12.0
2.5	11.5	12.3	13.5

*The number and diameter of conductor strands are for reference only.
The above data is only indicative and may be revised without prior intimation.

Fire Survival Cable

<dc> deepcab Fire Survival Cable

Features
- Maintains circuit integrity under fire conditions.
- Armouring to provide enhanced mechanical protection.
- Low smoke zero halogen (LSZH), flame retardant construction.

Application
- Emergency lighting circuits.
- Power for fire-fighting lifts.
- Vital circuits in hospitals, theatres, malls, tunnels, mass transit, power stations, data centers.

Construction
- Conductor strands of Annealed Bare Copper (ABC) wrapped with Mica (fire-resistant) tape and XLPE based core insulation.
- Cores laid up with overall Glass Fiber tape wrapping and inner sheathing of LSZH compound.
- Armouring of steel wires and outer sheathing of LSZH compound.

Technical Data

Test Voltage : AC 3500 V

Rated voltage : 600 / 1000 V

Temperature Range : -15 C to +90 C

Cross Sectional Area of Conductor (Nom.)	Thickness of Insulation	Dia. Of Armour Wire	Overall Diameter (App.)		
			2 Core	3 Core	4 Core
(Sq mm)	(mm)	(mm)	(mm)	(mm)	(mm)
1.5	0.6	0.90	13.0	13.5	14.8
2.5	0.7	0.90	14.5	15.0	16.0
4	0.7	0.90	15.5	16.5	17.8
6	0.7	1.25	17.0	17.5	20.0
10	0.7	1.25	19.0	20.5	22.0
16	0.7	1.25	21.0	22.5	24.5
25	0.9	1.60	22.5	26.5	28.5
35	0.9	1.60	24.0	29.0	31.5
50	1.0	1.60	26.5	29.5	33.2
70	1.1	2.00	30.0	33.0	39.2
95	1.1	2.00	34.0	38.0	43.2

*The number and diameter of conductor strands are for reference only.
The above data is only indicative and may be revised without prior intimation.

deepcab®
Wires & Cables

Solar Cable

Features

- UV and weather resistant, designed for outdoor installations and harsh environments.
- Can handle high voltages and currents specific to solar power systems.
- Built for long-term durability and longevity.

Application

- Designed for use in photovoltaic (PV) power systems.
- Used for cabling between solar modules and connecting to the DC/AC inverter.
- Suitable for indoor, outdoor, industrial, and agricultural use.

Construction

- Fine conductor strands of ATC - Annealed Tinned Copper.
- UV Resistant XLPO compound based core insulation .
- Outer sheathing of UV Resistant XLPO compound.

Technical Data

Test Voltage :
AC 6500 V

Rated voltage :
DC 1500 V

Temperature Range :
-15 C to +90 C

Cross Sectional Area of Conductor (Nom.)	Thickness of Insulation	Overall Diameter (App.)	Current Rating AC
(Sq mm)	(mm)	(mm)	(mm)
1.5	0.7	4.4	30
2.5	0.7	4.8	41
4	0.7	5.4	55
6	0.7	6.1	70
10	0.7	7.3	98
16	0.7	8.6	132
25	0.9	10.4	176
35	0.9	11.8	218
50	1.0	13.8	276
70	1.1	15.6	347
95	1.1	17.7	416

*The number and diameter of conductor strands are for reference only.
The above data is only indicative and may be revised without prior intimation.

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Wires & Cables

Elevator Cable

Features

- Excellent durability and flexibilty as travelling cable for elevators.
- Resistant to moisture, abrasion, grease and oil.
- Highly flexibility and low bending radius by using special PVC compound.

Application

- Power transmission in elevators.
- Camera in elevator.
- Communication between controller and elevator cabin.

Construction

- Fine conductor strands of ABC - Annealed Bare Copper.
- Insulation of special PVC based compound.
- Sheathing of special PVC based compound with cores laid parallelly.

Technical Data

Test Voltage :
2000 V AC

Rated voltage :
450/700 V

Core Identification :
1 Core Yellow with green stripe & rest numbered in same colour

Cross Sectional Area of Conductor (Nom.)	No. of Cores	Current Rating (Ampere)
(Sq mm)	(No.)	(Ampere)
0.50	4	7
0.50	12	14
0.50	16	16
0.50	18	18
0.50	24	22
0.75	4	11
0.75	12	20
0.75	16	24
0.75	18	26
0.75	24	30
0.75	30	35

*The number and diameter of conductor strands are for reference only.
The above data is indicative and may be revised without prior intimation.

Elevator CCTV Cable 2+2

→ Annealed tinned copper (ATC) conductor
→ For digital & analog camera in elevator

deepcab®
Wires & Cables

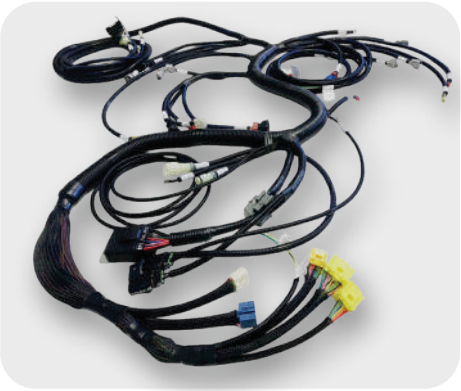
Wire Harness

Features

- Automated Cutting & Stripping: Wires are cut to exact lengths with precision stripping, preventing damage to conductors and ensuring clean terminations.
- Automated Conductor Twisting: Our machines precisely twist the fine copper strands of the conductor as per specific requirements, consolidating them for improved termination strength and facilitating the soldering process. This capability ensures uniform and reliable wire ends.
- Automated Soldering: High-speed, consistent soldering provides robust, reliable electrical connections, eliminating the inconsistencies inherent in manual processes and ensuring optimal conductivity.
- Integrated Quality Control: Every processed wire segment and harness component benefits from automated inspection steps, guaranteeing adherence to stringent quality standards and specifications.

Application

- Automotive & Electric Vehicles (EVs): High-reliability internal wiring for vehicle electronics, sensor arrays, infotainment systems, and battery management components.
- Consumer Electronics: Precision wiring for internal connections in appliances, computing devices, and audio-visual equipment, ensuring optimal performance and safety.
- Industrial Automation: Durable wiring for control panels, robotic systems, and complex sensor/actuator connections where precision and reliability are paramount.
- LED Lighting: Consistent and reliable power and signal wiring for individual LED modules and complete lighting fixtures, ensuring long operational life.
- Telecommunications: Essential for robust internal wiring within network equipment, communication devices, and data transmission systems.
- Medical Devices: Ultra-reliable internal wiring for sensitive diagnostic, monitoring, and therapeutic equipment where failure is not an option.
- Renewable Energy: Precise wiring solutions for internal connections within solar inverters, wind turbine components, and energy storage systems.
- Aerospace & Defense: Critical internal wiring for sensitive avionics, ground systems, and defense applications demanding the highest standards of reliability



Cord and Connector

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Wires & Cables

Power Cords

Power Cord	Number / Dia of Conductor Strands (Nom.)	Current Rating
(No. / SWG)	(inch)	(Ampere)
2	14/36	6
2	23/40	6
3	23/40	6
3	23/60	6
3	1.5 sqmm	15

2 Pin Power Cord

3 Pin Power Cord

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Wires & Cables

CAT 6 LAN Patch Cord

→ 23 AWG
→ 24 AWG

Audio Cord & Connector

Audio Stage Box & Drum

→ 04 Channel
→ 08 Channel
→ 12 Channel
→ 16 Channel
→ 24 Channel
→ 32 Channel

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Wires & Cables

Cords

Audio Cord		
XLR-M	to	XLR-F
XLR-M	to	P-38
XLR-F	to	P-38
XLR-F	to	2 XLR-M
Stereo	to	P-38
Stereo	to	2 RCA
Stereo	to	2 P-38
P-38	to	Stereo
P-38	to	RCA
P-38	to	P-38
P-38	to	C
P-38	to	2 RCA
P-38	to	2 P-38
C	to	P-38
C	to	2 RCA
C	to	2 P-38
BNC	to	BNC

Connectors

Audio Connector
XLR-M
XLR-F
Stereo
Speakon-M
Speakon-F
RCA
Powercon-M
Powercon-F
P-38

Appendix

Additional Products

Instrumentation Cables:

Single Cores/Pairs/Triads/Quads; PVC/XLPE insulated as per IS 1554/IS 7098; overall/individual shielding variants armoured/un-armoured for low voltage signals

TPU/PUR Sheathed Flexible Cables:

Abrasion/oil/cold resistant; drag-chain/robotics grade; high-flex life for moving applications

RS-485/RS-422/CAN Bus Cable:

Shielded twisted pair; industrial control/PLC comms; FR/FRLS/LSZH sheath options.

DMX512 Lighting Control Cable:

Balanced pair; foil+braid shield; touring-grade jacket for stage lighting networks

Fieldbus Cables (PROFIBUS/PROFINET/DeviceNet):

Specified impedance and shielding; rugged outer jackets for automation usecase

deepcab® Wires & Cables

Deepcab Colour Code Chart

Unshielded Cable - All Sizes		
2 Core Cable	Red	Black

Unshielded Cable (7/38 to 14/38)					
3 Core Cable	Red	Black	Green	x	
4 Core Cable	Red	Black	Green	Yellow	x

Unshielded Cable (0.5 sq mm to 6 sq mm)					
3 Core Cable	Red	Black	Green-Yellow	x	
4 Core Cable	Red	x	Green-Yellow	Yellow	Blue

Unshielded Cable (10 sq mm and 16 sq mm)					
3 Core Cable	Red	Black	Green	x	
4 Core Cable	Red	x	Green	Yellow	Blue

Unshielded Cable (25 sq mm to 95 sq mm)					
3 Core Cable	Red				
4 Core Cable	Red			Yellow	Blue

Shielded Cable - All Sizes		
2 Core Cable	Red	Black

Shielded Cable (7/38 to 14/38)					
3 Core Cable	Red	Black	Green	x	
4 Core Cable	Red	Black	Green	Yellow	x

Shielded Cable (0.5 to 1.5 sq mm)					
3 Core Cable	Red	Black	Green	x	
4 Core Cable	Red	Black	Green	Yellow	x

Shielded Cable (2.5 sq mm to 16 sq mm)					
3 Core Cable	Red	Black	Green	x	
4 Core Cable	Red	x	Green	Yellow	Blue

Shielded Cable (25 sq mm to 95 sq mm)					
3 Core Cable	Red				
4 Core Cable	Red			Yellow	Blue

Core Colours for 05 Cores and above only

For all Sizes - Unshielded & Shielded Cable

Cores S No	CORE Colours	Cores S No	CORE Colours	Cores S No	CORE Colours	Cores S No	CORE Colours	Cores S No	CORE Colours
1	Red	11	Pink	21	Red Neon	31	Pink/Black	41	Red
2	Black	12	Grey (Dark)	22	Green Spring	32	Grey Light/Black	42	Black
3	Green	13	Green Finolex	23	Green Neon	33	Green Finolex/Black	43	Green
4	Yellow	14	Yellow Finolex	24	Yellow/Black	34	Yellow Finolex/Black	44	Yellow
5	Blue	15	Blue Finolex	25	Blue Finolex/Black	35	Blue Finolex	45	Blue
6	White	16	White Ultra	26	White Ultra/Black	36	White Ultra	46	White
7	Orange	17	Orange Neon	27	Orange Neon/Black	37	Orange Neon	47	Orange
8	Violet	18	Rose	28	Rose/Black	38	Rose	48	Violet
9	Brown	19	Brown Dark	29	Brown/Black	39	Brown Dark	49	Brown
10	Grey (Medium)v	20	Grey Light	30	Grey Light/Black	40	Grey Light	50	Grey (Medium)

deepcab® Wires & Cables

Conductor Resistance Chart

Max. DC Conductor Resistance for Copper Conductor.

Nominal Cross Section (Sq. mm)	Max. DC Conductor resistance at 20°C (Ω/km)			
	Tin Coated Copper Conductor		Plain Copper Conductor	
	Class 2	Class 5+6	Class 2	Class 5+6
0.08	-	250	-	243
0.14	-	142	-	138
0.25	-	82	-	79.0
0.34	-	59.0	-	57.0
0.38	-	52.8	-	48.5
0.5	36.7	40.1	36	39.0
0.75	24.8	26.7	24.5	26.0
1	18.2	20.0	18.1	19.5
1.5	12.2	13.7	12.1	13.3
2.5	7.56	8.21	7.41	7.98
4	4.7	5.09	4.61	4.95
6	3.11	3.39	3.08	3.30
10	1.84	1.95	1.83	1.91
16	1.16	1.24	1.15	1.21
25	0.734	0.795	0.727	0.78
35	0.529	0.565	0.524	0.554
50	0.391	0.393	0.387	0.386
70	0.27	0.277	0.268	0.272
95	0.195	0.210	0.193	0.206
120	0.154	0.165	0.153	0.161
150	0.126	0.132	0.124	0.129
185	0.1	0.108	0.0991	0.106
240	0.0762	0.0817	0.0754	0.0801
300	0.0607	0.0654	0.0601	0.0641
400	0.0475	-	0.0470	-
500	0.0369	-	0.0366	-
630	0.0286	-	0.0283	-
800	0.0224	-	0.0221	-
1000	0.0177	-	0.0176	-

Notes :

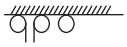
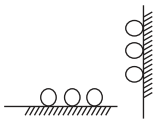
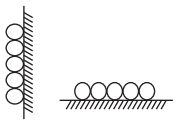
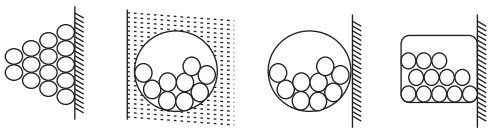
* 0.08 Sq. mm to 0.38 Sq. mm as per DIN VDE 0295 (Class 5/6)
* In accordance to
  - IS 8130, Class 1, Plain and tin coated copper max up to and including 150 Sq. mm and 16 Sq. mm respectively
  - IEC 60228, Class 1, Plain and tin coated copper max up to and including 400 Sq. mm and 16 Sq. mm respectively
  - IS 8130, Class 2, Plain and tin coated copper from 1 Sq. mm to 1000 Sq. mm
  - IEC 60228, Class 2, Plain and tin coated copper from 0.5 Sq. mm to 1000 Sq. mm
  - IS 8130 and IEC 60228, Class 5 and 6, Plain and tin coated copper up to and including 630 Sq. mm and 300 Sq. mm respectively

deepcab® Wires & Cables

Current Rating Conversion Factors

Current Rating Conversion Factor for Different Installation Methods.

for grouping on the wall, on the floor, in insulation tubes or in conduit and under the ceiling

Number of multicore cables or number of a.c. or 3-phase circuits of single core cable.	1	2	3	4	5	6	7	8	9	10	12	14	16	18	20
Installation method	Conversion factors														
One layer under the ceiling with contact 	0,95	0,81	0,72	0,68	0,66	0,64	0,63	0,62	0,61	0,61	0,61	0,61	0,61	0,61	0,61
One layer under the ceiling, with a space equal to the outer diameter d 	0,95	0,85	0,85	0,85	0,85	0,85	0,85	0,85	0,85	0,85	0,85	0,85	0,85	0,85	0,85
One layer on the wall or on the floor with a space equal to the outer diameter d 	1,00	0,94	0,90	0,90	0,90	0,90	0,90	0,90	0,90	0,90	0,90	0,90	0,90	0,90	0,90
One layer on the wall or on the floor with contact 	1,00	0,85	0,79	0,75	0,73	0,72	0,72	0,71	0,70	0,70	0,70	0,70	0,70	0,70	0,70
Bunched directly on the wall, on the floor, in insulating tubes or trunking or in the wall 	1,00	0,80	0,70	0,65	0,60	0,57	0,54	0,52	0,50	0,48	0,45	0,43	0,41	0,39	0,38

O Symbol for one single core or one multicore cable

When these factors are to be applied for the calculation of power ratings, the same type of cables and with equal loaded cores in the same installation method shall correspond. At the same time the

Crosssection are permitted to differ maximum one grade of Crosssection.

If the actual horizontal-space between the adjacent cables is more than double of the outer diameter, no reduction factor is necessary.

The same reduction factors are to be applied for grouping of two or three-core or multicore cables. For a system consisting of two or as well as three-core cables, firstly the total number of cables will be assumed as the number of circuits. For that the applicable factor is to be used either in the tables for two-cores loaded cables or the tables for three-cores loaded cables.

If the grouping of single core cables consist of n loaded single core cables, the rating factor shall be determinated for n/2 or n/3 circuits and applied to the current carrying capacity of two or three loaded cores.

Current Rating Conversion Factor for Different Numbers of Loading Cores in Multicore Cables.

(Conversion factors for multicore cables with Cross section up to 10 mm²).

Number of Loaded Cores	Conversion Factros
5	0.75
7	0.65
10	0.55
14	0.5
19	0.45
24	0.4
40	0.35
61	0.30

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Wires & Cables

Company Certifications

IS : 694 CM/L: 8928405

IS : 1554 (Part-1) CM/L: 8530070454

IS : 7098 (Part-1) CM/L: 8530070453

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UL

British Standards Institution bsi. Committee Member

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EXPERTS IN CRAFTING CUSTOM CABLES TO MEET YOUR UNIQUE REQUIREMENTS AND SPECIFICATIONS

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