



OUR CLIENTS



SIEMENS



adani
Ports and
Logistics



Raychem
RPG



vodafone



MIDAMERICAN
ENERGY COMPANY
Consistency. Integrity. At Your Service™



ABB

Amphenol

WAAREE®
One with the Sun

NETZSCH

salzer®



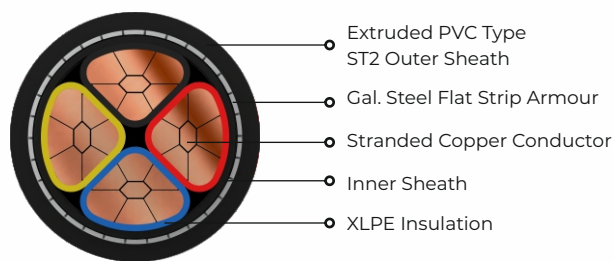
UltraTech
CEMENT
The Engineer's Choice



& Many More...

INDEX

PRODUCT	PAGE
■ Copper Armoured Cable	04
■ Aluminium Armoured Cable	05
■ Single Core Copper Armoured Cable	06
■ Single Core Aluminium Armoured Cable	07
■ LT Control Cable	08
■ Fire Survival Cable	09
■ Instrumentation Cable	10
■ Braided Cable	11
■ Shielded Cable	12
■ H07RN-F Rubber Cable	13
■ H05VV-F Cable	14
■ Multi Core Industrial Flexible Cable	15
■ Panel Wire	16
■ Building Wire	17
■ Earthing Cable	18
■ Submersible Flat Cable	19
■ Submersible Round Cable	20
■ Welding Cable	21
■ Solar Cable	22
■ Battery Cable	



Application

2XFY MC-3.5, Stranded compacted copper conductor, XLPE insulated, PVC inner sheathed, Galvanised Steel Flat strip armour and PVC sheathed conforming to IS 7098-1 is suitable for AC single phase or three phase (earthed or unearthed) systems with rated voltage up to and including 1100 V. This cable is also suitable for DC systems with rated voltage up to and including 1500 V to earth.

Voltage Rating

650/1100 V

Operation Temperature

Max.: 90 °C
Short circuit temperature 250 °C

Core Identification

Red / Black / Yellow / Blue / Natural

Construction

- Stranded plain compacted copper conductor as per IS 8130, class 2
- Insulated with Cross Linked Polyethylene (XLPE) to IS 7098-1
- Armoured with Aluminium Round wire/Flat strip armoured
- Sheathed with PVC Type ST2/FRLS/FR/LSZH

Standard And References

IS 8130:2013 | IS 5831:1984 | IS 3975:1979 | IS 7098-1:1988

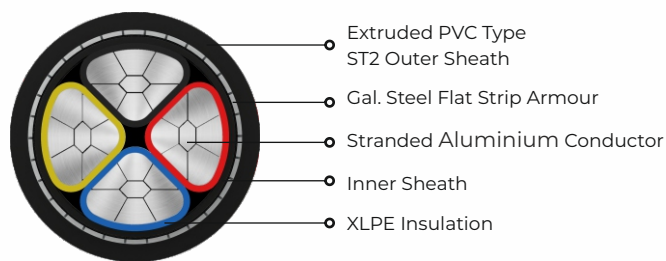
Compliance

Conductor resistance - IS 8130:2013
Insulation resistance - IS 7098-1:1988
Flammability test - IEC 60332-1-2:2015

Bending Radius

Fixed installation | 12 x Overall diameter

Nominal area of conductor	Buried direct in the ground	In single way Ducts	In air	Max. DC conductor resistance at 20 °C
mm ²	Amp.	Amp.	Amp.	Ω/km
16	95	79	89	1.15
25	122	102	119	0.727
35	146	122	147	0.524
50	173	144	179	0.387
70	212	177	226	0.268
95	254	212	279	0.193
120	287	240	320	0.153
150	321	269	365	0.124
185	362	304	422	0.0991
240	418	352	500	0.0754
300	469	396	574	0.0601



Application

A2XFY MC-3.5, Stranded compacted aluminium conductor, XLPE insulated, PVC inner sheathed, Galvanised Steel Flat strip armour and PVC sheathed conforming to IS 7098-1 is suitable for AC single phase or three phase (earthed or unearthed) systems with rated voltage up to and including 1100 V. This cable is also suitable for DC systems with rated voltage up to and including 1500 V to earth.

Voltage Rating

650/1100 V

Operation Temperature

Max.: 90 °C

Short circuit temperature 250 °C

Core Identification

Red / Yellow / Blue / Black

Construction

- Stranded plain compacted sector shaped copper conductor as per IS 8130, class 2
- Insulated with Cross Linked Polyethylene (XLPE) to IS 7098-1
- Extruded inner sheath with PVC Type ST2/FRLS/FR/LSZH
- Armoured with Galvanised Flat Steel Strip to IS 3975
- Sheathed with Extruded PVC Type ST2/FRLS/FR/LSZH

Standard And References

IS 8130:2013 | IS 5831:1984 | IS 3975:1979 | IS 7098-1:1988

Compliance

Conductor resistance - IS 8130:2013

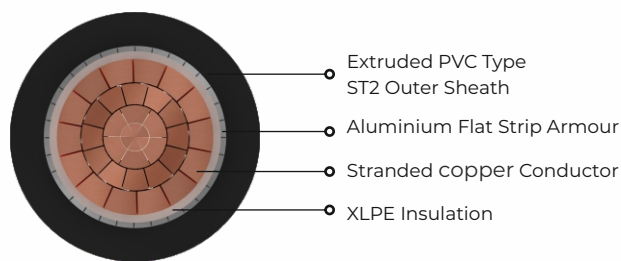
Insulation resistance - IS 7098-1:1988

Flammability test - IEC 60332-1-2:2015

Bending Radius

Fixed installation | 12 x Overall diameter

Nominal area of conductor	Buried direct in the ground	In single way Ducts	In air	Max. DC conductor resistance at 20 °C
mm ²	Amp.	Amp.	Amp.	Ω/km
16	74	61	69	1.91
25	95	79	93	1.2
35	114	94	114	0.868
50	134	112	138	0.641
70	164	137	175	0.443
95	197	164	216	0.32
120	223	187	249	0.253
150	249	209	284	0.206
185	282	238	329	0.164
240	327	276	392	0.125
300	369	312	452	0.1
400	420	356	526	0.0778



Application

2XW_aY/2XF_aY SC, stranded compacted copper conductor, XLPE insulated and PVC sheathed armoured cable confirming to IS 7098-1 is suitable for AC single phase or three phase (earthed or unearthed) systems with rated voltage up to and including 1100 V. This cable is also suitable for DC systems with rated voltage up to and including 1500 V to earth.

Voltage Rating

650/1100 V

Operation Temperature

Max.: 90 °C
Short circuit temperature 250 °C

Core Identification

Red / Black / Yellow / Blue / Natural

Construction

- Stranded plain compacted copper conductor as per IS 8130, class 2
- Insulated with Cross Linked Polyethylene (XLPE) to IS 7098-1
- Armoured with Aluminium Round wire/Flat strip armoured
- Sheathed with PVC Type ST2/FRLS/FR/LSZH

Standard And References

IS 8130:2013 | IS 5831:1984 | IS 7098-1:1988

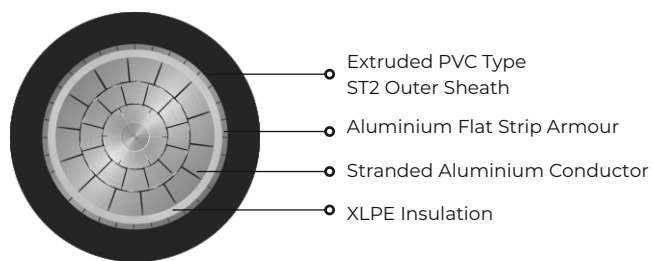
Compliance

Conductor resistance - IS 8130:2013
Insulation resistance - IS 7098-1:1988
Flammability test - IEC 60332-1-2:2015

Bending Radius

Fixed installation | 12 x Overall diameter

Nominal cross-sectional area	Buried direct in the ground		In angle way Ducts		In Air		Max. DC conductor resistance at 20 °C
	2 Single core cables	3 Single core cables	2 Single core cables	3 Single core cables	2 Single core cables	3 Single core cables	
mm ²	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Ω/km
10	90	77	76	70	83	71	1.83
16	115	98	97	89	108	94	1.15
25	148	126	124	114	144	126	0.727
35	177	150	148	136	176	154	0.524
50	208	177	174	160	212	187	0.387
70	255	216	213	195	269	238	0.268
95	312	260	256	233	340	303	0.193
120	355	295	291	264	396	354	0.153
150	396	329	324	294	450	403	0.124
185	447	371	365	330	519	468	0.0991
240	515	427	420	379	613	553	0.0754
300	576	477	469	422	700	634	0.0601
400	651	537	528	473	813	737	0.047
500	727	598	589	525	930	844	0.0366
630	806	661	651	578	1056	961	0.0283



Application

A2XWwY/A2XFAY SC, stranded compacted aluminium conductor, XLPE insulated, and PVC sheathed armoured cable confirming to IS 7098-1 is suitable for AC single phase or three phase (earthed or unearthed) systems with rated voltage up to and including 1100 V. This cable is also suitable for DC systems with rated voltage up to and including 1500 V to earth.

Voltage Rating

650/1100 V

Operation Temperature

Max.: 90 °C
Short circuit temperature 250 °C

Core Identification

Red / Black / Yellow / Blue / Natural

Construction

- Stranded plain compacted copper conductor as per IS 8130, class 2
- Insulated with Cross Linked Polyethylene (XLPE) to IS 7098-1
- Armoured with Aluminium Round wire/Flat strip armoured
- Sheathed with PVC Type ST2/FRLS/FR/LSZH

Standard And References

IS 8130:2013 | IS 5831:1984 | IS 7098-1:1988

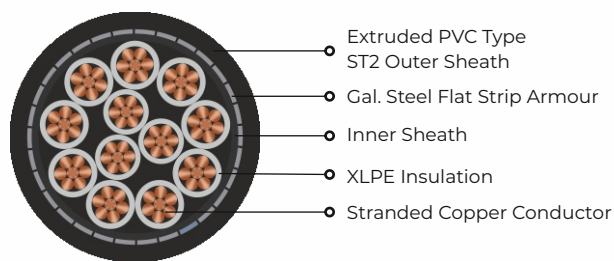
Compliance

Conductor resistance - IS 8130:2013
Insulation resistance - IS 7098-1:1988
Flammability test - IEC 60332-1-2:2015

Bending Radius

Fixed installation | 12 x Overall diameter

Nominal cross-sectional area	Buried direct in the ground		In single way Ducts		In air		Max. DC conductor resistance at 20 °C
	2 Single core cables	3 Single core cables	2 Single core cables	3 Single core cables	2 Single core cables	3 Single core cables	
mm ²	Amp.	Amp.	Amp.	Amp.	Amp.	Amp.	Ω/km
10	69	59	58	54	64	55	3.08
16	89	76	75	69	84	72	1.91
25	115	98	96	89	112	98	1.2
35	137	116	115	106	137	119	0.868
50	161	137	135	124	165	145	0.641
70	198	168	165	151	209	185	0.443
95	243	202	199	181	264	235	0.32
120	276	230	226	206	308	276	0.253
150	308	256	252	229	350	314	0.206
185	349	290	285	258	406	366	0.164
240	404	335	329	298	480	434	0.125
300	454	376	369	333	551	500	0.1
400	518	429	421	378	647	589	0.0778
500	588	485	476	426	751	685	0.605
630	663	546	536	477	868	793	0.0469



Application

1.5 2XFY MC, Stranded/solid copper conductor, XLPE insulated, PVC inner sheathed, Galvanised Steel strip armour and PVC sheathed conforming to IS 7098-1 is suitable for AC single phase or three phase (earthed or unearthed) systems with rated voltage up to and including 1100 V. This cable is also suitable for DC systems with rated voltage up to and including 1500 V to earth.

Voltage Rating

650/1100 V

Operation Temperature

Max.: 90 °C

Short circuit temperature 250 °C

Core Identification

White with number printing

Construction

- Stranded Copper conductor as per IS 8130, class 1&2
- Insulated with Cross Linked Polyethylene (XLPE) to IS 7098-1
- Armoured with Galvanised Steel strip to IS 3975
- Extruded inner sheath with PVC Type ST2/FRLS/FR/LSZH
- Sheathed with Extruded PVC Type ST2/FRLS/FR/LSZH

Standard And References

IS 8130:2013 | IS 5831:1984 | IS 3975:1979 | IS 7098-1:1988

Compliance

Conductor resistance - IS 8130:2013

Insulation resistance - IS 7098-1:1988

Flammability test - IEC 60332-1-2:2015

Bending Radius

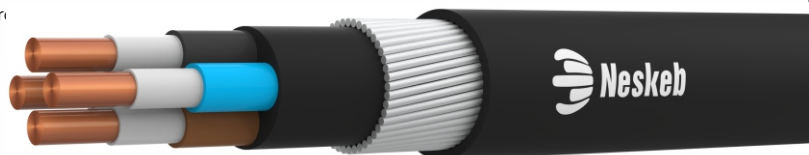
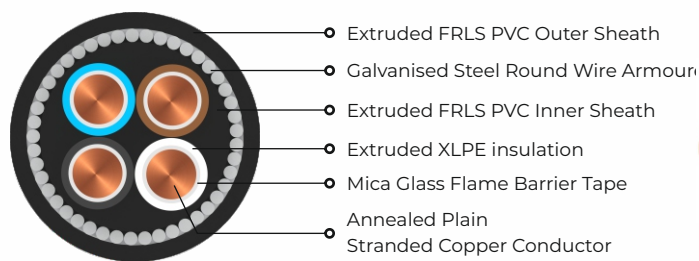
Fixed installation | 12 x Overall diameter

Outer Sheath Colour

Black

*Other colour also available on request.

Cross sectional area	Number of cores	Max. Dc conductor resistance at 20°C	Current Rating	
			In Ground (A)	In Air(A)
Sqmm	No's	Ω/km		
1.5	16	12.1	14	12
1.5	19	12.1	14	12
1.5	21	12.1	12	11
1.5	24	12.1	12	11
1.5	27	12.1	11	9
1.5	30	12.1	11	9
1.5	33	12.1	11	9
1.5	37	12.1	11	9
1.5	44	12.1	9	8
1.5	52	12.1	9	8
1.5	61	12.1	9	8



Application

Neskeb Multicore Armoured cable is suitable to use in various indoor & outdoor applications where continuity of power supply during the event of fire, is highly essential and corrosive gas evaluation could be a cause of hazard to the people or the precision instruments in high rise building, schools, hospitals, hotels, Malls, Subways etc.

Voltage Rating

0.6/1KV

Test Voltage

3500V AC at (20±5)°C

Standard And References

EN 60228:2005 | BS 7846:2016

Operation Temperature

-40°C to +90°C
Short Circuit Temperature 250°C

Bending Radius

Min. 12 x Overall Diameter

Compliance

Fire Resistant	BS 7846-F2 / BS 6387 CWZ / BS EN 50200 (PH 60) / BS 8434 / BS 8491 / EN 60331-3
Flame Propagation	EN 60332-1-2
Fire Retardant	EN 60332-3-24 (Cat.C)
Halogen Free Material	EN 60754-1
Smoke Density	EN 61034-2
Toxicity	NES 02-713

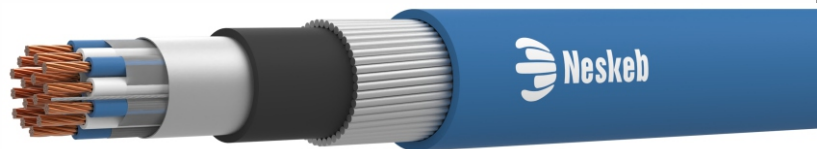
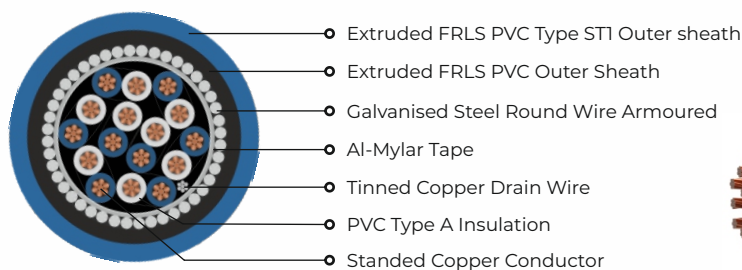
Core Identification

2 core: brown, blue; | 3 core: brown, black, grey;
4 core: blue, brown, black, grey;
5 core: green-and-yellow, blue, brown, black, grey;
Above 5 core can be supplied with number printing
(All cores: optional number printing)

Construction

- Annealed plain stranded copper conductor as per IEC 60228, Class-2. | - Mica Glass flame barrier tape. | - Extruded XLPE insulation.
- Insulated Cores assembled together. | - Extruded FRLS PVC Inner Sheath. | - Galvanised Steel Round Wire Armoured.
- (also available with Galvanised Steel Flat Strip Armour, dimensions and weights changes accordingly)
- Extruded FRLS PVC Outer Sheath, Colour: Black. (other colour as per request).

Conductor cross-Sectional area	Max. Conductor Resistance		Current Carrying Capacity (Amperes)					
			Air Ambient Temperature - 30°C Ground Ambient Temperature - 20°C Conductor Operating Temperature - 90°C					
			Reference Method C (clipped direct)		Reference Method E (in free air or on a perforated cable tray etc, horizontal or vertical)		Reference Method D (direct in Ground or in in ducting in ground, in or around buildings)	
	at 20°C DC	at 90°C AC	two-core cable, single-phase AC or DC	three-or four core cable, three phase AC	two-core cable, single-phase AC or DC	three- or four-core cable, three-phase AC	two-core cable, single-phase AC or DC	three- or four-core cable, three-phase AC
mm2	Ohm/km		Amp.	Amp.	Amp.	Amp.	Amp.	Amp.
1.5	12.5	15.4	27	23	29	25	25	21
2.5	7.41	9.45	36	31	39	33	33	28
4	4.61	5.88	49	42	52	44	43	36
6	3.08	3.93	62	53	66	56	53	44
10	1.83	2.33	85	73	90	78	71	58
16	1.15	1.47	110	94	115	99	91	75



Application

Instrumentation Cables, insulated with PVC/PE, Overall, al-mylar shielded, armoured / unarmoured and PVC / LSZH sheathed cable confirming to BS EN 50288-7 are designed for transmission of analogue and digital signals in instrument and control systems. Instrumentation Cables are used for diverse applications within industrial process for control, communication, data & voice transmission in oil, gas & petrochemical industries, cement, steel, fertilizers etc.

Voltage Rating

300 V

Operation Temperature

Max.: PVC 70°C, HRPVC 85°C,
XLPE 90°C, LDPE 60°C.

Core Identification

White / Blue core with number printing.

Construction

- Stranded Copper conductor as per EN 60228
- Insulated with PVC/PE as per EN 50288-7
- Collective screen Al/PET (Aluminium /Polyester tape) with drain wire of tinnedCu/Tinned copper braiding.
- Extruded inner sheath with PVC/LSZH to EN 50290-2-22/27
- Armoured with Galvanised Steel Strip/Round as per EN 50288-7
- Sheathed with Extruded PVC/LSZH to EN 50290-2-22/27

Standard And References

EN 50288-7 | EN 50288-1 | 60228 | 50290-2-22/27

Bending Radius

Fixed installation >
12 x Overall Diameter

Compliance

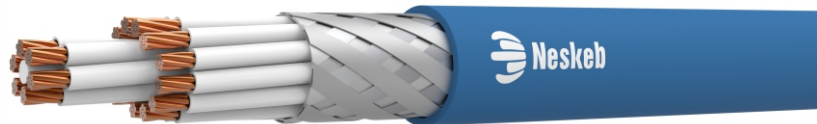
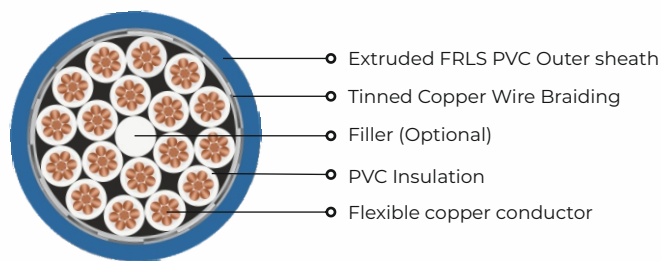
Conductor Resistance	- EN 60228
Insulation Resistance	- EN 50288-7
L/R Ratio	- EN 50288-7
Mutual Capacitance	- EN 50288-7

Note A: Outer sheath also available with PE & FRLS on request

Note B: As per the application/identification requirement, other colour also available on request.

Size of Cable	No. of Wire /Max. Strand Diameter	Max. DC Conductor Resistance* at 20°C	Max. L/R Ratio	Min. Insulation Resistance	Max. Mutual Capacitance	Max. Inductance	Test Voltage Vrms	
							Core-Core	Core-Screen
Sq.mm	mm	(Ω/km)	(H/Ω)	(GΩ/cm)	(nF/km)	(mH/km)		
0.5	16/0.200	39.0	25	20	250	1	2000	1500
0.75	24/0.200	26.0	25	20	250	1	2000	1500
1.0	32./0.200	19.50	25	20	250	1	2000	1500
1.5	30/0.250	13.30	40	20	250	1	2000	1500
2.5	50/0.250	7.98	60	20	250	1	2000	1500
4.0	56/0.300	4.95	60	20	250	1	2000	1500
6.0	84/0.300	3.30	60	20	250	1	2000	1500

- Higher Size also available



Building management system cables also known as BMS cables, or intelligent building cables, are used to automate building utility systems like air conditioning, ventilation, lighting, hydraulics, etc. These cables power individual equipments as well as the interconnection between various equipments; thus creating an integrated system. EMI suppression filters are attached to the cables to provide noise-free signal in BMS systems.

Neskeb BMS cables are the industry's preferred choice for building management systems. Developed as per international standards and manufactured for a wide range of applications, Neskeb BMS cables easily meet the industry's demanding requirements

Application

Neskeb Braided cables are designed for transmission of analogue and digital signals in building management system. The cables generally conform to BS EN 50288-7 and are useful for controlling & monitoring of diverse applications inside the building.

Voltage Rating

300 V

Operation Temperature

Max.: PVC 70°C

Core Identification

- 2 Core-Red & Black
- 3 Core-Red, Black & Yellow-green
- 4 Core-Red, Yellow, Blue & Yellow-green
- 5 Core & above -White/Grey core with number printing

Construction

- Flexible (Class 5) Copper conductor as per EN 60228
- Insulated with PVC Type A
- Tinned copper wire braided
- Sheathed with Extruded PVC FRLS

Standard And References

EN 50288-7 | EN 50288-1 | EN 60228 | EN 60332-1-2

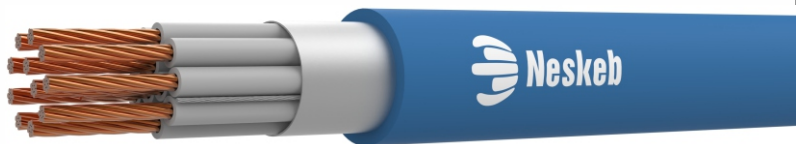
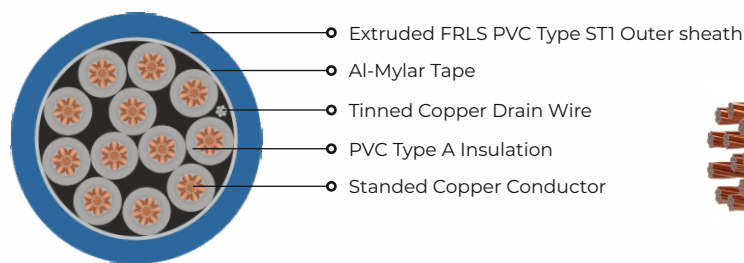
Bending Radius

12 x Overall diameter

Compliance

- Conductor Resistance - EN 60228
- Insulation Resistance - EN 50288-7
- L/R Ratio - EN 50288-7
- Mutual Capacitance - EN 50288-7

Area of Conductor	Max. DCresistance of conductor at 20°C Plain wires	Insulationresistance (PVC)	Mutual Capacitance (PVC)	Inductance to Resistanceratio (L/R)
sqmm	Ohm/km	MΩ/kmm	nf/km	μH/Ω
0.5	36	10	<250	< 25
0.75	24.5	10	<250	< 25
1	18.1	10	<250	< 25
1.5	12.1	10	<250	< 40



Building management system cables also known as BMS cables, or intelligent building cables, are used to automate building utility systems like air conditioning, ventilation, lighting, hydraulics, etc. These cables power individual equipments as well as the interconnection between various equipments; thus creating an integrated system. EMI suppression filters are attached to the cables to provide noise-free signal in BMS systems.

Neskeb BMS cables are the industry's preferred choice for building management systems. Developed as per international standards and manufactured for a wide range of applications, Neskeb BMS cables easily meet the industry's demanding requirements

Application

Neskeb Shielded cables generally conforming to EN 50288-7, are designed for transmission of analogue and digital signals in the building management system. The cables are useful for controlling & monitoring of diverse applications inside the building.

Voltage Rating

300 V

Operation Temperature

Max.: PVC 70°C

Core Identification

- 2 Core-Red & Black
- 3 Core-Red, Black & Yellow-green
- 4 Core-Red, Yellow, Blue & Yellow-green
- 5 Core & above -White/Grey core with number printing

Construction

- Flexible (Class 5) Copper conductor as per EN 60228
- Insulated with PVC Type A
- Collective screen Al/PET (Aluminium Polyester tape) with drain wire of tinned Cu
- Sheathed with Extruded PVC FRLS

Standard And References

EN 50288-7 | EN 50288-1 | EN 60228 | EN 60332-1-2

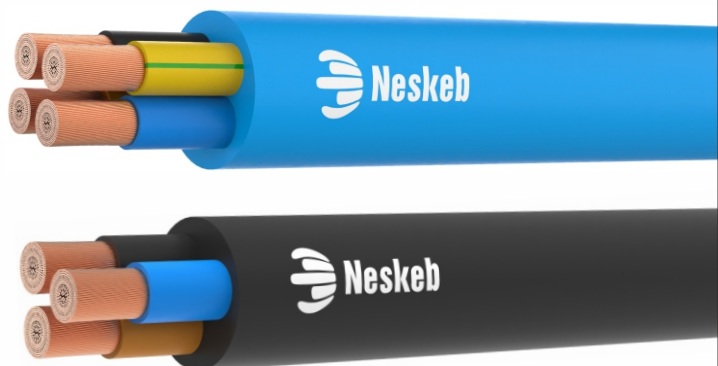
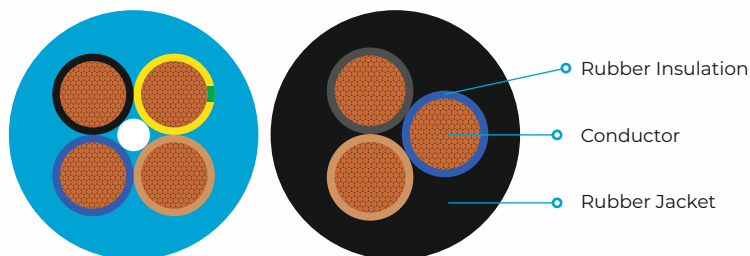
Bending Radius

12 x Overall diameter

Compliance

- Conductor Resistance - EN 60228
- Insulation Resistance - EN 50288-7
- L/R Ratio - EN 50288-7
- Mutual Capacitance - EN 50288-7

Area of Conductor	Max. Dc resistance of conductor at 20°C Plain wires	Insulation Resistance (PVC)	Mutual Capacitance (PVC)	Inductance to Resistanceratio (L/R)
sqmm	Ohm/km	MΩ/kmm	nf/km	μH/Ω
0.5	39	10	<250	< 25
0.75	26	10	<250	< 25
1	19.5	10	<250	< 25
1.5	13.3	10	<250	< 40



Cable Standard

Generally conforms to EN-50525-2-21, DIN VDE 0282 part 810, IEC 245

Cable Features

- Special heat resistant insulation
- High current carrying capacity
- Less heat energy radiation
- Longer life
- High compatibility of cores
- Excellent resistant to moisture, abrasion, grease, oil
- Excellent mechanical & electrical properties
- Insulation is highly thermal stable
- Harmonized acc. to European standards

Technical Data

Working Temp	: -25°C to 70°C
Operating Temp	: -20°C to max. +90°C
Nominal Voltage	: 450/750 V
Test Voltage	: 2500V
Min. Bending Radius	: 6 x cable Diameter
Flame propagation	: Flame retardant test as per IEC 60332-1-2

Standard Packing

Coils 100, 200, 500 and 1000m

Conductor : Flexible bare Class 5 copper conductor according to DIN VDE 0295, IEC 60228

Insulation : Rubber Type EI-4 to VDE 0282 Part-1

Sheath : Neoprene Jacket Rubber Type EM-2

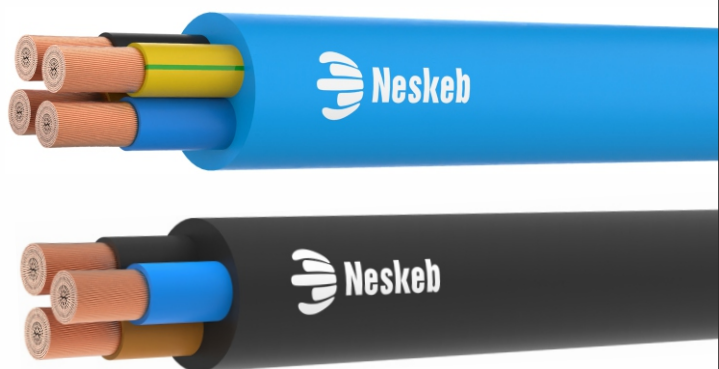
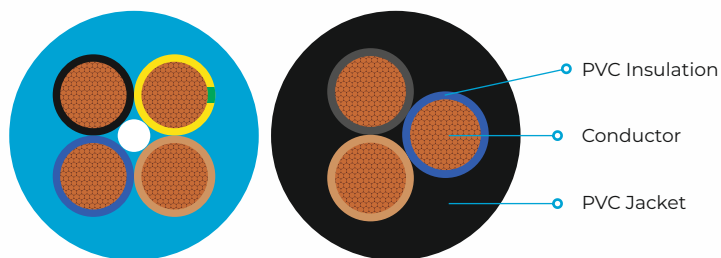
Colour : White, Black, Blue or as per customer order

Core Identification

- 1 Core - Black
- 2 Core - Blue & Brown
- 3 Core - Yellow/green, Blue, Brown
- 4 Core - Yellow/green, Blue, Brown, Black or Yellow/Green, Brown, Black, Grey
- 5 Core - Yellow/Green, Blue, Brown, Black and Grey

Application

H07RN-F rubber insulated and sheathed cables are intended for flexible connection to electrical equipment. They are suitable for both indoor and outdoor use in industrial and agricultural plant and on construction sites



Cable Standard

Generally conforms to DIN VDE 0281-5&2, BS:6500, EN-50525-2-11, IEC 60227-5

Cable Features

- Special heat resistant insulation
- High current carrying capacity
- Less heat energy radiation
- Longer life
- High compatibility of cores
- Excellent resistant to moisture, abrasion, grace, oil
- Excellent mechanical & electrical properties
- Insulation is highly thermal stable
- Harmonized acc. to European standards

Technical Data

Working Temp	: -5°C to 70°C
Operating Temp	: 20°C to +80°C
Nominal Voltage	: 300/500 V
Test Voltage	: 2000V
Min. Bending Radius	: 6x Cable Diameter

Standard Packing

Coils 100, 200, 500 and 1000m

- Conductor** : Annealed flexible bare Copper (Class 5 - Flexible Plain Copper) according to VDE 0295 IEC 60228.
- Insulation** : PVC T12 to according to EN 50363-3, BS 7655
- Sheath** : PVC TM2 to according to EN 50363-3, BS 7655
- Colour** : White, Black, Blue or as per customer order

Core Identification

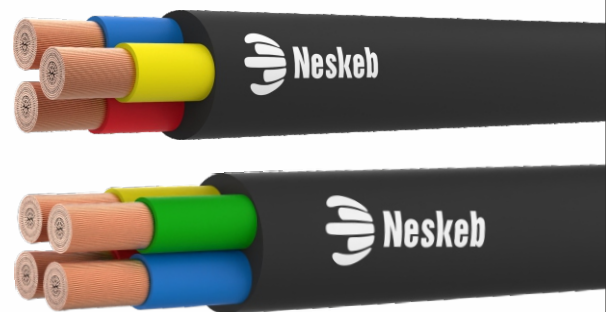
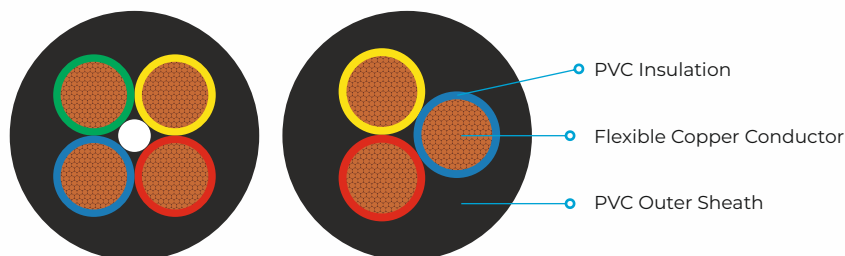
- 2 Core - Blue & Brown
- 3 Core - Yellow/green, Blue, Brown
- 4 Core - Yellow/green, Blue, Brown, Black or Yellow/green, Brown, Black, Grey
- 5 Core - Yellow/green, Blue, Brown, Black and Grey

Application

H05VV-F cordage is a flexible PVC insulated, PVC jacketed harmonized cord recommended for use in electronic and electrical equipment such as office.

Cable Size	Insulation Thickness	Sheath thickness in mm				Max overall diameter in mm								Max Conductor Resistance at 20°C	Current Rating At Ambient Temperature
		2 Core	3 Core	4 Core	5 Core	2 Core		3 Core		4 Core		5 Core			
						Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit	Lower Limit	Upper Limit		
sq.mm	mm	sq.mm	sq.mm	sq.mm	sq.mm	sq.mm	sq.mm	sq.mm	sq.mm	sq.mm	sq.mm	sq.mm	sq.mm	Ω/km	Amp.
0.75	0.6	0.8	0.8	0.8	0.9	5.7	7.2	6	7.6	6.6	8.3	7.4	9.3	26.0	7
1	0.6	0.8	0.8	0.9	0.9	5.9	7.5	6.3	8	7.1	9	7.8	9.8	19.5	11
1.5	0.7	0.8	0.9	1	1.1	6.8	8.6	7.4	9.4	8.4	10.5	9.3	11.6	13.3	13
2.5	0.8	1	1	1.1	1.2	8.4	10.6	9.2	11.4	10.1	12.5	11.2	13.9	7.98	18
4	0.8	1.1	1.2	1.2	1.4	9.7	12.1	10.5	13.1	11.5	14.3	13	16.1	4.95	24

- All are class 5 flexible conductor



Cable Standard

IS 694:2010, BS 6500

Salient Features

- High Flexibility
- Excellent resistant to moisture, abrasion, grace, oil
- Long Life
- Excellent mechanical & electrical properties

Technical Data

Working Temp : Max.+70°C

Nominal Voltage : 1.1 KV

Test Voltage : 3.0 KV

Min. Bending Radius : 6 x Cable Diameter

Standard Packing

Coils 100, 200, 300 , 500, 1000m.

Conductor : Flexible Bare or Tinned Bunch
Copper as per IS:8130-1984

Insulation : PVC as per IS:5831-1984

Sheath : PVC as per IS:5831-1984

Core Colour

As per IS 694 : 2010

2 Core – Red & Black

3 Core – Red, Black, Green or Red, Yellow and Blue

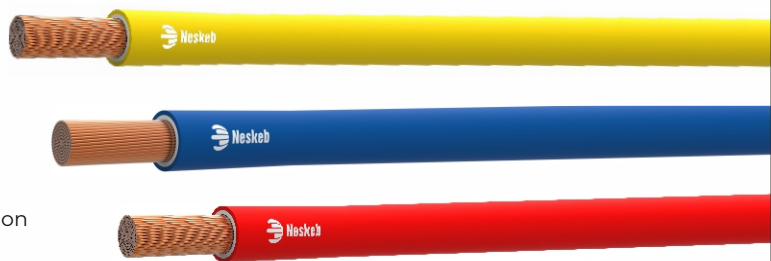
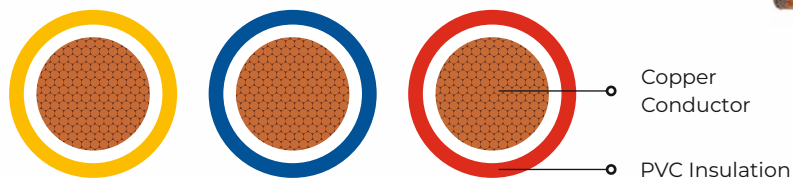
4 Core - Red, Yellow, Blue and Green or Black

Application

Ideal For industrial induction motor, power tools, electrical machinery etc...

Conductor		Insulation		Thickness of Sheath and Diameter				Conductor Resistance at 20°C (max)	Current Rating At Ambient Temperature
Size of Cable	No. of Wire/Size of Wire	Thickness (Nominal)	Core OD	Sheath Thickness (Nominal)	2 Core Outer Diameter	3 Core Outer Diameter	4 Core Outer Diameter		
Sq.mm	Nos.mm	mm	mm	mm	mm	mm	mm	Ω/km.	Amps.
0.50	16/0.20	0.60	2.05	0.90	5.60	6.0	6.40	39.0	4
0.75	24/0.20	0.60	2.30	0.90	6.0	6.80	7.20	26.0	7
1.0	32/0.20	0.60	2.50	0.90	6.80	7.0	8.0	19.50	11
1.5	30/0.25	0.60	2.90	0.90	7.80	8.0	9.20	13.30	14
2.5	50/0.25	0.70	3.50	1.0	9.20	9.50	11.10	7.98	18
4.0	56/0.30	0.80	4.0	1.10	10.60	11.60	12.50	4.95	24
6.0	84/0.30	0.80	5.0	1.10	13.0	13.80	15.0	3.30	31
10.0	140/0.30	1.0	6.0	2.0	18.0	19.0	20.20	1.91	52
16.0	224/0.30	1.0	7.30	2.0	20.0	21.50	23.50	1.21	70
25.0	350/0.30	1.2	9.50	2.30	24.0	26.0	28.0	0.780	88
35.0	490/0.30	1.2	11.0	2.50	27.0	29.0	31.50	0.554	112
50.0	700/0.30	1.4	13.0	2.80	30.0	34.0	37.0	0.386	146
70.0	980/0.30	1.4	15.0	3.10	35.0	38.0	42.2	0.272	216
95.0	1330/0.30	1.6	18.0	4.0	42.0	44.50	48.8	0.206	262

- Size 10.0 sqmm Above Outer sheath double cover



Cable Standard

IS : 694 : 2010 & BS 6004, BS EN 50525-2-31

Cable Features

- Special heat resistant insulation
- Higher current carrying capacity.
- Fine copper wires
- Highly thermal stable insulation
- Excellent resistant to moisture, abrasion, grace, oil
- Long Life
- Excellent mechanical & electrical properties

Application

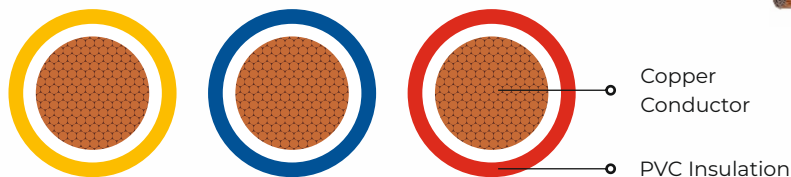
Fixed installation in conduits and under plaster, for appliance wiring and distribution stations.

Standard Packing

Coils 90 and 180m

- Conductor** : Flexible Bare Copper conductor class-2 and class-5 as per IS: 8130 EN 60228
- Insulation** : HR/FR/FRLS-H/ZHFR Insulation compound with a high insulation resistance value as per IS:5831
- Colour** : Red, Yellow/green, Blue, Black, Brown, Grey, Orange, White, Green, Yellow
- Properties** : PVC Self-extinguishing and flame retardant according to EN 60332-1-2

Size of Wire	No. of Wire / Size of Wire	Insulation Thickness	OD	Max conductor resistance at 20°C	Current Rating At Ambient Temperature
sq. mm	Nos/mm	(Nominal)mm	mm	Ω/km	Amps
0.50	16/0.20	0.6	1.90	39	4
0.75	24/0.20	0.6	2.20	26	8
1.0	14/0.30	0.6	2.40	19.5	11
1.5	22/0.30	0.6	2.80	13.3	14
2.5	36/0.30	0.7	3.35	7.98	18
4.0	56/0.30	0.8	3.80	4.95	24
6.0	84/0.30	0.8	4.80	3.3	31
10.0	140/0.30	1.0	6.0	1.91	52
16.0	224/0.30	1.0	7.50	1.21	75
25.0	350/0.30	1.2	9.50	0.78	88
35.0	490/0.30	1.2	11.0	0.554	112
50.0	703/0.30	1.4	13.0	0.386	146
70.0	988/0.30	1.4	16.0	0.272	212
95.0	1349/0.30	1.6	17.5	0.206	262
120.0	608/0.50	1.6	19.0	0.161	310
150.0	767/0.50	1.8	21.0	0.129	352
185.0	943/0.50	2.0	23.5	0.106	400
240.0	1223/0.50	2.2	26.5	0.0801	475
300.0	1525/0.50	2.4	29.5	0.0641	550
400.0	2035/0.50	2.6	33.5	0.0486	670
500.0	2553/0.50	2.8	37.5	0.0384	750
630.0	3219/0.50	2.8	42.0	0.0287	875



Salient Features (FR and FRLS)

- Good Flame Retardant Properties
- Excellent resistant to moisture, abrasion, grace, oil
- Long Life
- Excellent mechanical & electrical properties
- Steam and boiling water resistant

Salient Features (ZHFR)

- Zero Halogen acid gas Evolution
- Non corrosive and non toxic insulation
- High temperature resistant insulation
- Better Flame retardant property
- Excellent resistant to moisture, abrasion, grace, oil
- Long Life

Technical Data

Operating Temp : -10°C to max.+90°C

Nominal voltage : 1.1 KV

Test voltage : 3.0 KV

Flame propagation : Flame retardant test as per IS 10810-58,64, IEC 60332-1

Cable Standard

Generally conforms to IS 694:2010, BS6004

Standard Packing

Coils 90m, 180m and 360m

Conductor : Annealed flexible bare Copper class-2 and class-5 Conductor as per IS:8130-1984

Insulation : PVC FR, FRLS,HRFR,ZHFR as per IS:5831-1984

Colour

Red, yellow, Blue, Black, Brown, Grey, Orange, White, Green, Yellow/green or as per customer requirement

Application

Fixed installation in conduits and under plaster, for appliance wiring & distribution stations.

Fixed Wiring in Conduits & Building wire Application.

Wire Size	No. of wire / Diameter of Wire	Insulation Thickness	OD	Max Conductor Resistance at 20°C	Current Rating At Ambient Temperature
sq.mm	No./mm	mm	mm	Ω/km	Amps
0.50	16/0.20	0.60	2.10	39.0	4
0.75	10/0.30* OR 24/0.20	0.60	2.40	26.0	8
1.0	14/0.30 OR 32/0.20	0.60	2.65	18.10	11
1.5	22/0.30* OR 30/0.250	0.70	3.0	12.10	13
2.5	36/0.30* OR 50/0.250	0.80	3.6	7.41	18
4.0	56/0.30	0.80	4.0	4.95	24
6.0	84/0.30	0.80	5.1	3.30	31
10.0	140/0.30	1.0	6.3	1.91	52
16.0	224/0.30	1.0	8.0	1.21	70

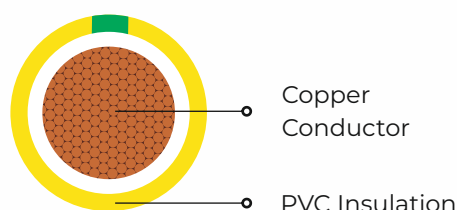
* Class-2 Conductor

• If Required Tinned copper conductor also available

Test (FRLS)	Specification	Specified Values
Limited Oxygen Index Test	IS 10810-58	> 29%
Limited Temperature Index Test	IS 10810-64	> 250°
Smoke Density Rating(Light Absorption)	ASTM D 2843	<60%
Halogen Acid Gas Generation	IS 10810-59	< 20%

Test (FR)	Specification	Specified Values
Limited Oxygen Index Test	IS 10810-58	> 29%
Limited Temperature Index Test	IS 10810-64	> 250° C

Test (ZHFR)	Specification	Specified Values
Limited Oxygen Index Test	IS 10810-58	> 31%
Limited Temperature Index Test	IS 10810-64	> 300°
Smoke Density Rating(Light Absorption)	ASTM D 2843	< 20%
Halogen Acid Gas Generation	IS 10810-59	< 0.5%



Cable Standard

Generally conforms to IS 694:2010, IEC60228, BS 6004

Salient Features

- Special heat resistant insulation
- Higher current carrying capacity
- Fine copper wires
- Highly thermal stable insulation
- High electrical conductivity
- Long Life
- Excellent mechanical & electrical properties

Technical Data

Operating Temp : -10°C to max.+90°C

Nominal voltage : 1.1 KV

Test voltage : 3.0 KV

Standard Packing

Coils 100, 200, 500 and 1000m.

Conductor : Bare Copper class1 or class-2 as per IS:8130, IEC 60228

Insulation : PVC FR, FRLS,HRFR,ZHFR as per IS:5831-1984

Colour

Black, Green, Yellow/green or as per customer requirement

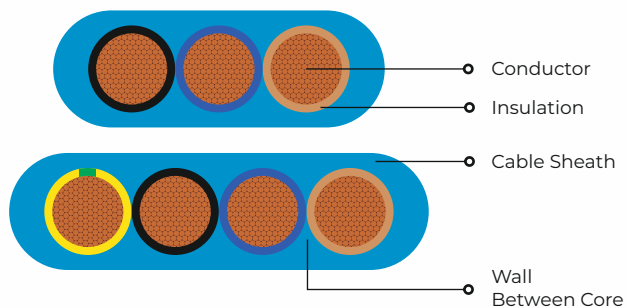
Application

Neskeb - Earth : Installation in surface mounted or embedded conduits, or similar closed systems.

Wire Size	No. of wire / Size of Wire	Insulation Thickness (Nominal)	OD	Max Conductor Resistance at 20°C	Current Rating At Ambient Temperature
sq.mm	Nos./mm	mm	mm	Ω/km	Amps
1.5	1/1.38 or 7/0.52	0.6	2.95	12.10	13
2.5	1/1.78 or 7/0.67	0.7	3.60	7.41	18
4	7/0.85	0.8	4.0	4.61	24
6	7/1.0	0.8	5.10	3.08	31
10	7/1.30	1.0	6.50	1.83	52
16	7/1.70	1.0	8.0	1.15	70
25	7/2.13	1.2	10.0	0.727	88
35	7/2.52	1.2	11.50	0.524	112
50	19/1.83	1.4	13.50	0.387	146
70	19/2.16	1.4	16.0	0.268	216
95	19/2.52	1.6	17.5	0.193	262
120	37/2.0	1.6	19	0.153	310
150	37/2.25	1.8	21	0.124	355
185	37/2.52	2.0	23.5	0.0991	415
240	61/2.23	2.2	26.5	0.0754	500
300	61/2.50	2.4	29.5	0.0601	550
400	61/2.89	2.6	33.5	0.0470	670
500	61/3.23	2.8	37.5	0.0366	750
650	91/2.96	3.0	42	0.0283	875

- All are class 2 conductors
- Class 5 conductor is also available as per customer request
- Up to 6.0 sq.mm class 1 conductor is available as per customer request

- Aluminum conductor also available
- General purpose Special insulation also available



Cable Standard

IS 694:2010, BS 6500, IEC 60227

Salient Features

- Excellent flexibility
- Excellent resistant to moisture, abrasion, grease, oil
- Long Life
- Excellent mechanical & electrical properties

Technical Data

Working Temp : Max.+70°C

Nominal Voltage : 1.1 KV

Test Voltage : 3.0 KV

Min. Bending Radius : 6 x Cable Diameter

Standard Packing

Coils 100, 200, 300, 500, 1000m

Conductor : Flexible Bare Bunch Copper as per IS:8130

Insulation : PVC / XLPE / EPR RUBBER

Outer Sheath : PVC / EPR RUBBER

Core Colour

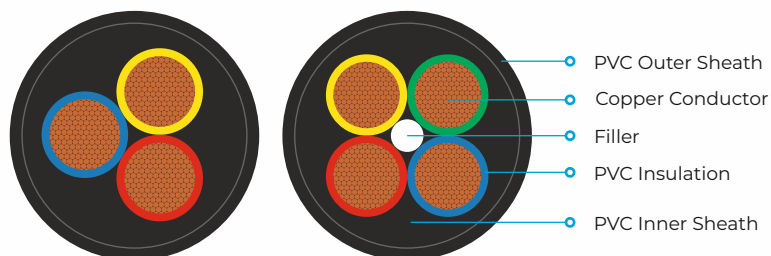
As per IS: 694:2010 – 3C - Red, Yellow, Blue, 4C - Red, Yellow, Blue, Black

As per IEC:60227 - 3C - Black, Blue, Brown. 4C - Black, Blue, Brown, Green or Yellow/Green

Application

Ideal For Irrigation Pumps, Drinking Water Supply Pumps, Submersible Pump Motor Power Supply.

Conductor		Insulation		Sheath			Conductor Resistance at 20°C (max)	Current Rating At Ambient Temperature
Size of Cable	No. of Wire/Size of Wire	Thickness	Core OD	Thickness	Overall Size			
					3 Core	4 Core		
Sq.mm	Nos.mm	Nos.mm	mm	mm	mm	mm	Ω/km.	Amps.
1.0	14/0.30	0.60	2.60	0.90	9.90 x 4.70	12.50 x 4.80	18.1	11
1.5	22/0.30	0.60	2.80	0.90	10.50 x 4.80	14.20 x 5.10	12.1	14
2.5	36/0.30	0.70	3.35	1.0	12.60 x 5.90	17.50 x 7.0	7.41	18
4.0	56/0.30	0.80	4.0	1.0	14.50 x 6.70	20.0 x 7.90	4.95	26
6.0	84/0.30	0.80	5.0	1.0	17.50 x 7.50	23.50 x 9.0	3.30	31
10.0	140/0.30	1.0	6.5	1.40	22.80 x 9.90	29.0 x 9.90	1.91	52
16.0	224/0.30	1.0	8.0	1.40	28.0 x 13.0	36.0 x 11.40	1.21	70
25.0	350/0.30	1.20	10.0	2.0	24.50 x 14.80	45.0 x 14.70	0.780	88
35.0	490/0.30	1.20	11.50	2.0	38.0 x 17.0	50.0 x 16.20	0.554	112
50.0	700/0.30	1.40	13.50	2.20	46.0 x 20.50	58.0 x 18.30	0.386	146
70.0	980/0.30	1.40	15.3	2.20	53.0 x 23.0	66.5 x 20.0	0.272	190
95.0	1330/0.30	1.60	18.0	2.40	60.0 x 28.0	77.3 x 23.50	0.206	225



Cable Standard

BS 6500 & IS 694:2010, IEC 60227

Salient Features

- High flexibility
- Excellent resistant to moisture, abrasion, grease, oil
- Long Life
- Excellent mechanical & electrical properties

Technical Data

Working Temp : Max.+70°C
Nominal Voltage : 1.1 KV
Test Voltage : 3.0 KV
Min. Bending Radius : 6 x Cable Diameter

Standard Packing

Coils 100, 200, 300 , 500, 1000m

Conductor : Flexible Bare Bunch Copper as per IS:8130

Insulation : PVC / EPR RUBBER

Inner Sheath : PVC / NBR / TPR RUBBER

Outer Sheath : PVC / NBR / TPR RUBBER

Core Colour

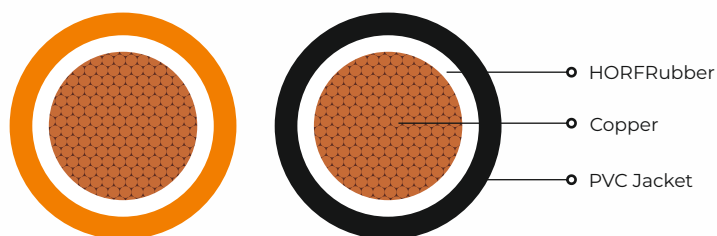
As per IEC 60227 – 3C -Blue, Brown, Black or Yellow/ Green, 4C -Blue, Brown, Black, Grey or Yellow/Green

As per IS 694 : 2010 - 3C - Red, Yellow and Blue
 4C - Red, Yellow, Blue and Green

Application

Ideal For Irrigation Pumps, Drinking Water Supply Pumps, Submersible Pump Motor Power Supply.

Conductor		Insulation		Total Thickness of Double Sheath and Diameter			Conductor Resistance at 20°C (max)	Current Rating At Ambient Temperature
Size of Cable	No. of Wire/Size of Wire	Thickness	Core OD	Sheath Thickness (Nominal)	3 Core Outer Diameter	4 Core Outer Diameter		
Sq.mm	Nos.mm	mm	mm	mm	mm	mm	Ω/km.	Amps.
1.5	22/0.30	0.60	2.90	1.20	9.50	10.30	12.1	14
2.5	36/0.30	0.70	3.50	1.40	11.50	13.0	7.41	18
4.0	56/0.30	0.80	4.0	1.40	14.0	14.80	4.95	26
6.0	84/0.30	0.80	5.0	1.60	15.50	16.0	3.30	31
10.0	140/0.30	1.0	6.0	2.0	19.0	20.20	1.91	52
16.0	224/0.30	1.0	7.30	2.0	21.50	23.50	1.21	70
25.0	350/0.30	1.2	9.50	2.30	26.0	28.0	0.780	88
35.0	490/0.30	1.2	11.0	2.50	29.0	31.50	0.554	112
50.0	700/0.30	1.4	13.0	2.80	34.0	37.0	0.386	146
70.0	980/0.30	1.4	15.0	3.10	38.0	42.2	0.272	190
95.0	1330/0.30	1.6	18.0	4.0	44.50	48.8	0.206	225



Cable Standard

Generally conforms to, Based on IS:9857-1990 VDE 0282, IEC 245-6, BS 6899

Salient Features

- Ultra high performance flexible welding lead, double insulated for longer life and added safety
- Better flame retardant properties
- Outstanding toughness & durability
- High resistance to cuts, tears & abrasion
- Resistance to oil, solvents and chemicals
- Excellent ozone and weather resistant

Technical Data

Fixed Installation	: -20°C to max.+90°C
Nominal Voltage	: 600 V
Spark Test	: 3.5 KV(ac)
Min. Bending Radius	: 6 x Cable Diameter

Application

Designed for the secondary (high current) connection to automatic or hand - held metal arc welding electrodes. It is suitable for flexible use under rugged conditions, on assembly lines & conveyor systems, in machine tool and automatically operated line & spot welding machines

Cable Size	Nominal Inner Insulation Thickness	Nominal sheath thickness	Overall Cable Diameter		Max. Conductor Resistance at 20°C	Current Rating Welding Applications					Non Welding Application
			Single Insulated	Double Insulated		100%	85%	60%	30%	20%	
Sq.mm	mm	mm	mm	mm	Ω/km.	amp	amp	amp	amp	amp	amp
10.0	1.0	1.10	7.0	8.50	1.910	105	115	135	190	235	110
16.0	1.10	1.30	9.0	10.0	1.210	135	145	175	245	302	138
25.0	1.20	1.40	10.30	12.0	0.780	180	195	230	330	402	187
35.0	1.20	1.60	11.85	13.50	0.554	225	245	290	410	503	233
50.0	1.30	1.70	14.0	15.20	0.386	285	310	370	520	637	295
70.0	1.40	1.80	15.80	18.0	0.272	355	385	460	650	794	372
95.0	1.80	2.0	17.70	20.60	0.206	430	470	560	790	961	449
120.0	2.0	2.10	19.50	23.0	0.161	500	540	650	910	1118	523

Rating factors for variation in ambient temperature

Ambient Temperature °C	20°	25°	30°	35°	40°	45°	50°	55°	60°	65°
Rating Factor	1.04	1.04	1.04	1.04	1.04	1.04	1.04	0.69	0.64	0.57

Standard Packing

Coils 100, 200, 300 and 500m

Conductor : High conductivity, bare annealed copper flexible conductor, EC copper class 5 & class 6 generally conforms to IS:8130-1984, IEC 60228

Separation : Polyester tape

Insulation : Double Insulated/single insulated flexible Nitrile rubber HOFR insulated as per IS:6380-1984

Colour : Orange / Black Jacket

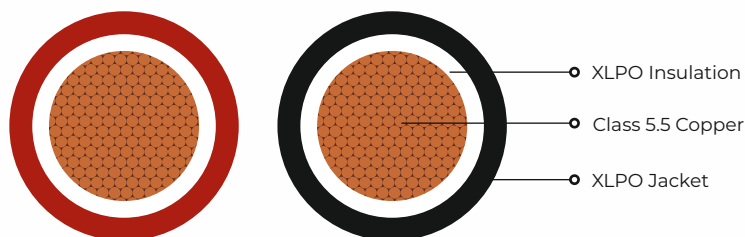
Current Rating

The maximum current ratings of flexible welding cables for different duty cycles are based on an ambient air temperature of 25 C and a maximum conductor temperature of 90 C. The percentage duty cycles for various processes and applications are as follows:

- Automobile Welding : up to 100%
- Semi Automatic Welding : 30% to 85%
- Manual Welding : 0% to 60%
- Very intermittent or Occasional Welding : up to 20%

Voltage Drop

When total cable lengths in excess of 15mtr., are involved, it may be necessary to use cables of larger cross section to ensure that the voltage drop is not excessive & welding currents are maintained at adequate levels.



Electrical Characteristics

- Rated Voltage : 0.6/1 kV AC
- Rated DC Voltage : 1.5 kV
- Maximum Permitted DC Voltage : 1.8 kV (conductor/conductor, non earthen system, circuit not under load)
- Maximum Permitted AC Voltage : 1 kV
- Working Voltage : DC 1000 V
- Spark Test : 6000 V. ac (8400 Vdc)
- Voltage Withstand : 6500 V as per EN50395 for 5 min
- Ampacity : According to requirements for cables for PV systems

Technical Data

- Ambient Temperature : -40°C – +90°C
- Minimum Bending Radius : 5 x OD (fixed), 15 x OD (occasional flexing)
- Flame retardant according to IEC 60332-1-2
- Low smoke emission < 20% as per ASTM D-2843
- Halogen free according to EN 50267-2-1/-2, IEC 60754-2
- Maximum Temperature at Conductor : 120°C (20000h)
- Short Circuit Temperature : 200°C (at conductor max. 5sec)
- Thermal Endurance Test : According to EN 60216-2 (temperature index +120°C)
- High Temperature Pressure : Test according to EN 60811-3-1
- Excellent mechanical and electrical properties.
- UV resistance & OZONE resistance
- Flexibility & suitability for fast & easy installation

Cable Standard

EN 50618

Standard Packing

Coils 100, 200,300, 500, 1000m

Conductor : Flexible Electrolytic fine Tinned copper class-5 conductor according to IEC 60228

Insulation : XLPO (Crosslinked Halogen Free & Flame Retardant)

Sheath : XLPO (Crosslinked Halogen Free & Flame Retardant)

Colour

Red, Black and also available black color with red lining

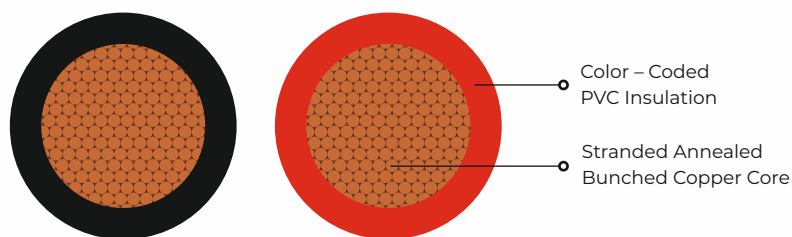
Application

For Solar Panel, Solar Power Plant, Solar Pump Installation.

Size of Cable	Max. Conductor D.C. Resistance at 20°C	Insulation Thickness	Sheath Thickness	Outer Diameter	Current Rating Under Continues Operation 90°C And Ambient Temperature 40°C (in A)	Short Circuit Current Rating For 1 sec. Duration(in KA)
Sq.mm	ohm / (km)	(Nominal) mm	(Nominal) mm	mm		
1.5	13.7	0.60	0.70	4.30	22	0.189
2.5	8.71	0.70	0.80	5.0	30	0.315
4.0	5.09	0.70	0.80	5.60	42	0.504
6.0	3.39	0.80	0.90	6.20	52	0.756
10.0	1.95	0.80	0.90	7.10	76	1.26
16.0	1.24	0.90	1.0	8.30	95	2.02

- Current Rating Conversion Factors For Different Ambient Temperature

Ambient Temperature °C	Up to 60	70	80	90
Conversion Factor	1	0.92	0.84	0.75



Cable Standard

SAE J1127 VDE 0295, IEC 60228,
IS 2465, BS 6862

Cable Features

- Excellent flexibility
- The NESKEB Auto cables is impervious to water, petrol, diesel, acids, engine and lubricating oils and grease resistant
- High mechanical strength
- Excellent flame retardant properties
- Excellent mechanical & electrical properties
- Special heat resistant insulation
- Minimum bending radius

Application

These wires used low voltage circuit in automobiles such a Vehicles and Motor cycles. Where high flexibility is required.

Standard Packing

Coils 25, 50, 100, 200 And 500m.

Conductor : Flexible Battery Cables:

Flexible bare copper class 5
conductors to IEC 60228

Extra Flexible Battery Cables:

Flexible bare copper class 6
conductors to IEC 60228

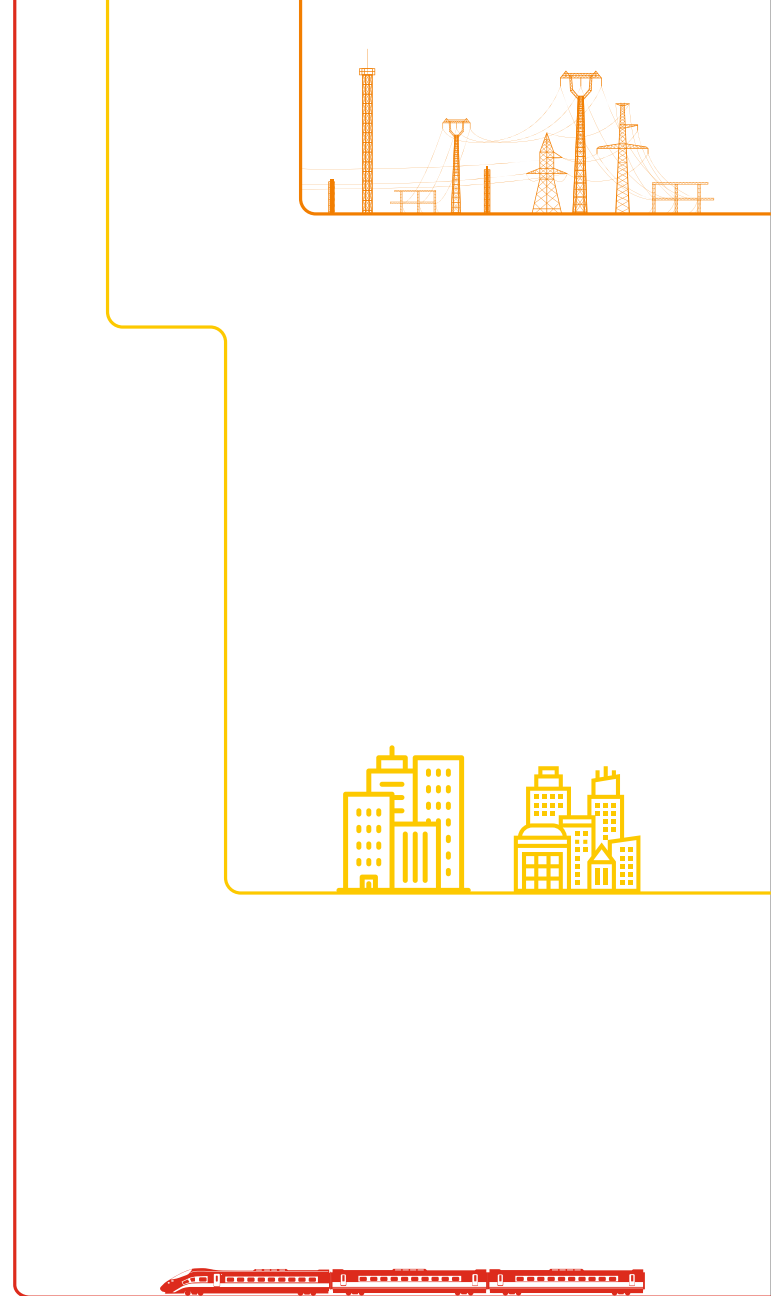
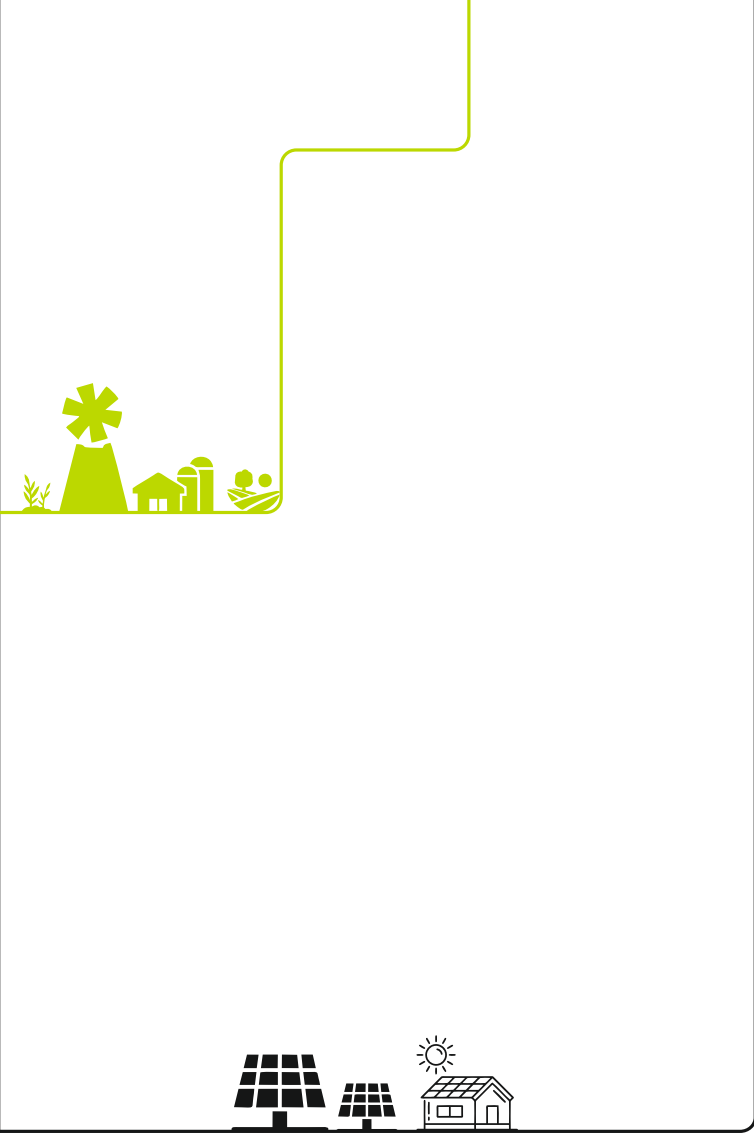
Insulation : Flexible Battery Cables: HR PVC Extra Flexible Battery Cables: HOFR(TPR Rubber)

Separator : Polyester tape over conductor for HOFR insulated extra flexible battery cables

Colour : Red, Black

PVC Insulated BATTERY CABLES as per IS 2465 : 1984

Conductor			Cable Parameters	
Cable Size	Number / Dia. Of Strands (Nom.)mm	Resistance at 20°C (Max.)ohms / km	Nominal Thickness of Insulation (Nom.) mm.	Overall Diameter (Approx.) mm.
10	140/0.30	1.91	1.0	6.50
16	126/0.40	1.21	1.0	8.0
25	196/0.40	0.780	1.2	10.50
35	276/0.40	0.554	1.3	12.0
50	396/0.40	0.386	1.4	15.0
70	360/0.50	0.272	1.4	17.50
95	480/0.50	0.206	1.6	19.0
120	608/0.50	0.161	1.6	22.0
150	750/0.50	0.129	1.8	25.0
185	931/0.50	0.106	2.0	28.0
240	1221/0.50	0.0801	2.2	32.0



Neskeb Cables Pvt. Ltd. (Unit-1)

✉ info@neskeb.com

📍 Survey No.142,P4,P1, Ankit Ind. Area-3,
Plot No.1 to 6 Nr. Varun Casting,
Padavala-Pardi Road, At. PADVALA - 360024,
Ta. Kotda Sangani, Dist. Rajkot(Gujarat-India)

Neskeb Optical Fibre LLP (Unit-2)

✉ ofc@neskeb.com

📍 Survey No. 340, Plot No. 04 & 05,
Near. Rotec Pump, At. Padvala - 360 024,
Ta. Kotda Sangani, Dist. Rajkot(Gujarat-India)

Orange Multimedia

