

CB 1002BE

## Control & Power Cables

Reliability — even in the harshest of environments — is the hallmark of Belden® control & power cables. No matter what type of insulation, conductor count & size, jacket, armor or standard we can meet your needs.



**Belden lets you select & design your own cable based on your application & industry requirements based upon:**

**-EN 50288-7  
-IEC 60502-1**

### Full range of Choice

Belden offers a full range of control & power cables based on international standards to ensure that your critical application needs are addressed. These cables are designed in metric conductor sizes, have the most suitable insulation material to ensure the key electrical performance, steel wire armoring option & variety of jacketing materials to meet the rigorous installation requirements. These multi core cables offer high performance & reliability in various verticals ensuring higher uptime & precise operation.

### Shielding

Belden meets the demand for highly effective shielding technology with innovative, EMI/RFI protective foil and braid designs like Beldfoil. Belden's patented Beldfoil shield is an aluminum/polyester foil construction that yields a lightweight, strong, flexible and 100% shield coverage. For low frequency coupling noise Belden offers low resistance path to ground by using tinned copper braid shield which ensures the elimination of this noise while also providing high flexibility to the cables.

### Product Description

This range of control & power cables include cables which are suitable for 300V all the way upto to 1000V applications. You can now design your own cable by selecting:

- 1) Cable type
- 2) Conductor material
- 3) Insulation & Jacket material
- 4) Flame rating
- 5) Insulation & Jacket color codes
- 6) Shielding options

### Verticals

Belden control & power cables meet the highest electrical, mechanical & physical requirements which are required in today's fast growing verticals such as

- Oil & Gas (upstream, midstream & downstream)
- Power (generation, transmission & distribution)
- Automanufacturing
- Machine building
- Petrochemical complex
- Mining Industry
- Manufacturing (Steel, cement, pulp & paper, food & beverage)
- Wasterwater treatment
- Intelligent transport & traffic system
- Wind energy

**Be certain.  
Belden.**

## Control & Power Cables Product Range

### CABLE TYPE

Cable Type	Code	Cable Type & Code
Unarmored multi core cable 300V -EN50288-7	B4	Cable Type:
Unarmored multi core cable 500V -EN50288-7	B5	Unarmored Multi Core Cable
Unarmored multi core cable 600/1000V -IEC 60502-1	B6	Cable Voltage Rating:
Steel wire armor multi core cable 300V -EN50288-7	B7	600/1000V
Steel wire armor multi core cable 500V -EN50288-7	B8	Reference Design Standard:
Steel wire armor multi core cable 600/1000V -IEC 60502-1	B9	IEC 60502-1
		Cable Code= B6

B615 9 C U 05010

### CONDUCTOR TYPE

Conductor Area (mm <sup>2</sup> )	Bare CU Code	Tinned CU Code	Conductor Area (mm <sup>2</sup> )	Bare CU Code	Tinned CU Code	Conductor Type & Code
0.50 Class-2 Stranding	29	30	0.50 Class-5 Stranding	07	08	Conductor Size: 2.50mm <sup>2</sup>
0.75 Class-2 Stranding	31	32	0.75 Class-5 Stranding	09	10	Conductor Stranding:
1.00 Class-2 Stranding	33	34	1.00 Class-5 Stranding	11	12	Class-5 Stranding
1.50 Class-2 Stranding	35	36	1.50 Class-5 Stranding	13	14	Conductor Material: Bare Copper
2.50 Class-2 Stranding	37	38	2.50 Class-5 Stranding	15	16	Conductor Code=15

### INSULATION/JACKET TYPE

Insulation/Jacket	Code	Insulation/Jacket	Code	Insulation/Jacket, Flame Rating & Code
PVC/PVC IEC 60332-1	1	PE/FRPVC IEC 60332-3C	7	Insulation Material: XLPE
PE/PVC IEC 60332-1	2	PE/FRLS PVC IEC 60332-3C	8	Jacket/Sheath Material: FRPVC
XLPE/PVC IEC 60332-1	3	XLPE/FRPVC IEC 60332-3C	9	Flame Rating: IEC 60332-3C
PE/LSZH IEC 60332-1	4	XLPE/FRLS PVC IEC60332-3C	A	Insulation/Jacket Code: 9
FRPVC/FRPVC IEC 60332-3C	5	PE/LSZH IEC 60332-3C	B	
FRLS PVC/FRLS PVC IEC 60332-3C	6	XLPE/LSZH IEC 60332-3C	C	

### INSULATION COLOR

Insulation color code	Code	Insulation color code	Code	Insulation Color & Code
DIN VDE 47100	A	EN50334 with GR/YL	H	Insulation Color or Standard:
Black with numbers	B	EN50334 without GR/YL	G	Black with numbers + 1 GR/YL
Black with numbers +1 GR/YL	C	White with numbers + 1GR/YL	P	Insulation Color Code: C
HAR color code	D	AS/NZS 5000.1	R	
EN50288-7 color code	F			

### SHIELDING TYPE

Shield	Code	Shield	Code	Shield Type & Code
Unshielded	U	Tinned copper braid shield	B	Shield Type: Unshielded
Overall foil Shield with TC drain wire	F	Overall foil shield + tinned copper braid	T	Shield Code: U

### NUMBER OF CORES

No. of Cores	Code	No. of Cores	Code	Number of Cores & Code
2	02	7	07	No. of Cores: 5
3	03	8	08	No. of Cores Codes: 05
4	04	9	09	
5	05	10	10	
6	06	11	11	

### INNER & OUTER JACKET COLOR

Jacket/Sheath Color	Code	Jacket/Sheath Color	Code	Inner & Outer Jacket/Sheath Color
Black	010	Chrome	060	Jacket/Sheath Color: Black
Grey	008	Violet	007	Color Code: 010
Blue	006	Orange	003	

## Technical Information-Control Cables

### Conductors

Conductors used in designing these cables are in accordance with IEC 60228 / VDE0295 standard:

#### Bare Copper

#### Tinned Copper

Code Selection	Conductor Size(mm <sup>2</sup> )	Conductor Stranding	Stranding Construction	DCR @ 20°C (Ω/Km)	Code Selection	Conductor Size(mm <sup>2</sup> )	Conductor Stranding	Stranding Construction	DCR @ 20°C (Ω/Km)
29	0.50	IEC 60228 Class 2	7/0.31	36.00	30	0.50	IEC 60228 Class 2	7/0.31	36.70
31	0.75	IEC 60228 Class 2	7/0.37	24.50	32	0.75	IEC 60228 Class 2	7/0.37	24.80
33	1.00	IEC 60228 Class 2	7/0.43	18.10	34	1.00	IEC 60228 Class 2	7/0.43	18.20
35	1.50	IEC 60228 Class 2	7/0.52	12.10	36	1.50	IEC 60228 Class 2	7/0.52	12.20
37	2.50	IEC 60228 Class 2	7/0.67	7.41	38	2.50	IEC 60228 Class 2	7/0.67	7.56
07	0.50	IEC 60228 Class 5	16/0.20	39.00	08	0.50	IEC 60228 Class 5	16/0.20	40.10
09	0.75	IEC 60228 Class 5	24/0.20	26.00	10	0.75	IEC 60228 Class 5	24/0.20	26.70
11	1.00	IEC 60228 Class 5	32/0.20	19.50	12	1.00	IEC 60228 Class 5	32/0.20	20.00
13	1.50	IEC 60228 Class 5	30/0.25	13.30	14	1.50	IEC 60228 Class 5	30/0.25	13.70
15	2.50	IEC 60228 Class 5	50/0.25	7.98	16	2.50	IEC 60228 Class 5	50/0.25	8.21

### Insulation & Sheath Properties

Insulation/Jacket(Sheath)	Code Selection	Fire/Flame Retardant	Smoke Density	Oil Resistance	UV Resistance	Halogen Acid Gas (IEC 60754-1)	pH Value (IEC 60754-2)	Conductivity (IEC 60754-2)	Temperature Rating	Bending Radius Unarmored Cable	Bending Radius Armored Cable
PVC/PVC	1	IEC 60332-1	-	-	Yes*	-	-	-	-30°C to +70°C	8 X OD	12 X OD
PE/PVC	2	IEC 60332-1	-	-	Yes*	-	-	-	-30°C to +70°C	8 X OD	12 X OD
XLPE/PVC	3	IEC 60332-1	-	-	Yes*	-	-	-	-30°C to +70°C	8 X OD	12 X OD
PE/LSZH	4	IEC 60332-1	40%	-	Yes*	0%	≥4.3	<10 μS/mm	-30°C to +70°C	8 X OD	12 X OD
FRPVC/FRPVC	5	IEC 60332-3C	-	Yes	Yes	≤20%	-	-	-30°C to +90°C	8 X OD	12 X OD
FRLS PVC/FRLS PVC	6	IEC 60332-3C	60%	Yes	Yes	≤20%	-	-	-30°C to +90°C	8 X OD	12 X OD
PE/FRPVC	7	IEC 60332-3C	-	Yes	Yes	≤20%	-	-	-30°C to +75°C	8 X OD	12 X OD
PE/FRLS PVC	8	IEC 60332-3C	60%	Yes	Yes	≤20%	-	-	-30°C to +75°C	8 X OD	12 X OD
XLPE/FRPVC	9	IEC 60332-3C	-	Yes	Yes	≤20%	-	-	-30°C to +90°C	8 X OD	12 X OD
XLPE/FRLS PVC	A	IEC 60332-3C	60%	Yes	Yes	≤20%	-	-	-30°C to +90°C	8 X OD	12 X OD
PE/LSZH	B	IEC 60332-3C	40%	Yes	Yes	0%	≥4.3	<10 μS/mm	-30°C to +75°C	8 X OD	12 X OD
XLPE/LSZH	C	IEC 60332-3C	40%	Yes	Yes	0%	≥4.3	<10 μS/mm	-30°C to +90°C	8 X OD	12 X OD

### Insulation Color Code

Color sequence / codes for these cables are in accordance with the relevant cable standard and can also be based on special requests.

Multi Pair & Triads Instrumentation & Signal Cables (Insulation Color Codes)		
Insulation Color Standard	Code Selection	Color Sequence
EN 50288-7	F	300V & 500V: All black color continuously numbered
IEC 60502-1	B	600/1000V: All black color continuously numbered
Special	C	All black color cores with numbers plus one green/yellow
	H	3 Cores: Blue, Brown & Green/Yellow
EN 50334/VDE 0293 with GR/YL	H	4 Cores: Brown, Black, Grey & Green/Yellow
	H	5 Cores: Blue, Brown, Black, Grey & Green/Yellow
	H	6 or more Cores: Black or White cores with numbering & 1 Green/Yellow
	J	2 Cores: Blue & Brown
EN 50334/VDE 0293 without GR/YL	J	3 Cores: Brown, Black & Grey
	J	4 Cores: Blue, Brown, Black & Grey
	J	5 Cores: Blue, Brown, Black, Grey & Black
	J	6 or More Cores: Black or White cores with numbering
AS/NZS 5000.1	P	All White color cores with numbers plus one green/yellow

### Jacket (Sheath) Color Code

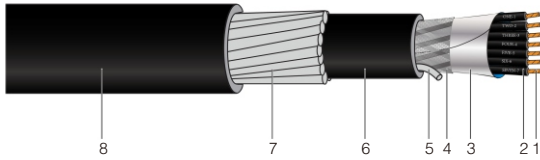
Jacket/Sheath Color	Code Selection
Black	010
Grey	008
Blue	006
Chrome	060
Violet	007
Orange	003

### Electrical Performance - EN50288-7

Parameter	Testing Standard	Requirement	Abbreviations Key		
Dielectric Strength	EN 50289-1-3	300 V	≥ 1.0 kVac or 2.0 kVac	PVC	Polyvinyl Chloride
		500 V	≥ 2.0 kVac or 3.0 kVac	FRPVC	Flame Retardant Polyvinyl Chloride
Insulation Resistance	EN 50289-1-4	PVC	10 MΩ*KM	FRLS PVC	Flame Retardant Low Smoke Polyvinyl Chloride
		PE	1000 MΩ*KM	PE	Polyethylene
		PP	1000 MΩ*KM	XLPE	Cross Linked Polyethylene
		LSZH	10 MΩ*KM	LSZH	Low Smoke Zero Halogen
Mutual Capacitance	EN 50289-1-5	Polyolefin	< 150 nF/km		
		Others	< 250 nF/km		
Inductance To Resistance Ratio ( L / R )	EN 50289-1-12 EN 50289-1-2		< 25 μH/Ω for up to 1.00mm <sup>2</sup>		
			< 40 μH/Ω for 1.50mm <sup>2</sup>		
			< 60 μH/Ω for 2.50mm <sup>2</sup>		

\*Special color request as suggested by Belden  
Yes\* Special colors only

## Control & Power Cables 300V or 500V - EN 50288-7



- 1→ Conductor
- 2→ Insulation
- 3→ Foil shield (optional)
- 4→ Braid shield (optional)
- 5→ Rip Cord
- 6→ Inner sheath for armored cables & outer sheath for unarmored cables.
- 7→ Steel wire armor (optional)
- 8→ Outer sheath (optional)

### APPLICATION GUIDE

Suitable Application	Suitable Verticals	Suitable Installation Locations*	Product Description*	Mechanical & Electrical Parameters*	Standards*
Machine wiring & tools	Machine building	Indoor/Outdoor	Multi core cables	Temperature Rating: -30°C to +90°C	Conductor as per IEC 60228
Control & power application	Oil, Gas & Petrochemical	Direct burial	Flexible copper conductor	Voltage rating: 300V or 500V	Based on EN50288-7
Manufacturing paint shops	Pulp & paper	Cable trays	Flexible Insulation material		Oil resistant
Motor speed control	Mining Industry	Ducts	Flexible sheath material		UV resistant
Measuring & control circuits	Intelligent transportation	Raceways	Optional steel wire armor		RoHS compliant
Conveyor & transport system	PT&D	Flexible locations	Optional rodent protection		
Air conditioning & ventilation	Cement Industry	Intrinsically safe			
Interconnecting sensors	Automobile	locations-IEC 60079			
Push button stations	Chemical industry				
Wind turbine	Wind energy				

### CABLE DESIGN CRITERIA

Cable Type	Code	Conductor Area (mm <sup>2</sup> )	Code		Insulation/Jacket	Code
			Bare Cu	Tinned Cu		
Unarmored multi core cable 300V	B4	0.50-Class-5 Stranding	07	08	PVC/PVC IEC 60332-1	1
Unarmored multi core cable 500V	B5	0.75-Class-5 Stranding	09	10	XLPE/PVC IEC 60332-1	3
Steel wire armor multi core cable 300V	B7	1.00-Class-5 Stranding	11	12	PE/LSZH IEC 60332-1	4
Steel wire armor multi core cable 500V	B8	1.50-Class-5 Stranding	13	14	FRPVC/FRPVC IEC 60332-3C	5
		2.50-Class-5 Stranding	15	16	FRLS PVC/FRLS PVC IEC 60332-3C	6
		0.50-Class-2 Stranding	29	30	XLPE/FRPVC IEC 60332-3C	9
		0.75-Class-2 Stranding	31	32	XLPE/FRLS PVC IEC60332-3C	A
		1.00-Class-2 Stranding	33	34	PE/LSZH IEC 60332-3C	B
		1.50-Class-2 Stranding	35	36	XLPE/LSZH IEC 60332-3C	C
		2.50-Class-2 Stranding	37	38	PVC/PUR-IEC 60332-1	D
					XLPE/PUR-IEC60332-1	E

Insulation Color Code	Code	Shield	Code	No. of Cores	Code	Jacket Color	Code
Black with numbers +1 GR/YL	C	Unshielded	U	2	02	Black	010
EN 50288-7 color code	F	Overall foil shield with TC drain wire	F	3	03	Grey	008
White with numbers + 1 GR/YL	P	Tinned copper braid shield	B	4	04	Blue	006
		Overall foil + tinned copper braid shield	T	5	05	Chrome	060
				6	06	Violet	007
				7	07	Orange	003
				8	08		
				9	09		
				10	10		
				11	11		
				12	12		

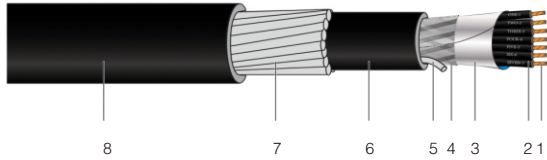
### DESIGN YOUR OWN CABLE BY CREATING THE PART CODE USING CABLE DESIGN CRITERIA

B8	13	A	F	T	07	010
Cable Type Code	Conductor Code	Insulation/Jacket Code	Insulation Color Code	Shield Code	No. of Cores Code	Jacket Color Code

Above selected part code is an example on how to select the part code code using cable design criteria. Select the correct part code based on the application requirement.

- \*Varies depending on the construction of the cable
- Putup length & tolerance of the cables will vary depending on the construction of the cable
- MOQ will vary depending on the construction of the cable & provided at the time of quotation
- Cable requested outside the above design criteria can be reviewed and quoted

## Control & Power Cables 600/1000V - IEC 60502-1



- 1 → Conductor
- 2 → Insulation
- 3 → Overall foil shield with drain wire (optional)
- 4 → Overall Braid Shield (optional)
- 5 → Rip Cord
- 6 → Inner sheath for armored cables & outer sheath for unarmored cables
- 7 → Steel wire armor (optional)
- 8 → Outer sheath (optional)

### APPLICATION GUIDE

Suitable Application	Suitable Verticals	Suitable Installation Locations*	Product Description*	Mechanical & Electrical Parameters*	Standards*
Machine wiring & tools	Machine building	Indoor/Outdoor	Multi core cables	Temperature Rating: -30°C to +90°C	Conductor as per IEC 60228
Control & power application	Oil, Gas & Petrochemical	Direct burial	Flexible copper conductor	Voltage rating: 600/1000V	Based on IEC 60502-1
Manufacturing paint shops	Pulp & paper	Cable trays	Flexible Insulation material		Oil resistant
Motor speed control	Mining Industry	Ducts	Flexible sheath material		UV resistant
Measuring & control circuits	Intelligent transportation	Raceways	Optional steel wire armor		RoHS compliant
Conveyor & transport system	PT&D	Flexible locations	Optional rodent protection		
Air conditioning & ventilation	Cement Industry	Intrinsically safe locations-IEC60079			
Interconnecting sensors	Automobile				
Push button stations	Chemical industry				
Wind turbine	Wind energy				

### CABLE DESIGN CRITERIA

Cable Type	Code	Conductor Area (mm <sup>2</sup> )	Code		Insulation/Jacket	Code
			Bare Cu	Tinned Cu		
Unarmored multi core cable 600/1000V	B6	1.00-Class-5 Stranding	11	12	FRPVC/FRPVC IEC 60332-3C	5
Steel wire armor multi core cable 600/1000V	B9	1.50-Class-5 Stranding	13	14	FRLS PVC/FRLS PVC IEC 60332-3C	6
		2.50-Class-5 Stranding	15	16	XLPE/FRPVC IEC 60332-3C	9
		1.00-Class-2 Stranding	33	34	XLPE/FRLS PVC IEC60332-3C	A
		1.50-Class-2 Stranding	35	36	XLPE/LSZH IEC 60332-3C	C
		2.50-Class-2 Stranding	37	38		

Insulation Color Code	Code	Shield	Code	No. of Cores	Code	Jacket Color	Code
Black with numbers +1 GR/YL	C	Unshielded	U	2	02	Black	010
Black with numbers	B	Overall foil shield with TC drain wire	F	3	03	Grey	008
White with numbers + 1 GR/YL	P	Tinned copper braid shield	B	4	04	Blue	006
		Overall foil + tinned copper braid shield	T	5	05	Chrome	060
				6	06	Violet	007
				7	07	Orange	003
				8	08		
				9	09		
				10	10		
				11	11		
				12	12		

### DESIGN YOUR OWN CABLE BY CREATING THE PART CODE USING CABLE DESIGN CRITERIA

B9	15	A	B	T	07	010
<b>Cable Type Code</b>	<b>Conductor Code</b>	<b>Insulation/Jacket Code</b>	<b>Insulation Color Code</b>	<b>Shield Code</b>	<b>No. of Cores Code</b>	<b>Jacket Color Code</b>

Above selected part code is an example on how to select the part code code using cable design criteria. Select the correct part code based on the application requirement.

- \*Varies depending on the construction of the cable
- Putup length & tolerance of the cables will vary depending on the construction of the cable
- MOQ will vary depending on the construction of the cable & provided at the time of quotation
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CB 1003BE

## Instrumentation & Signal Cables

Reliability — even in the harshest of environments — is the hallmark of Belden® instrumentation & signal cables. No matter what type of insulation, conductor count & size, jacket, armor or standard we can meet your needs.



**Belden lets you select & design your own cable based on your application & industry requirements as per international standards:**

**-EN 50288-7  
-IEC 60502-1**

### Full range of Choice

Belden offers a full range of instrumentation & signal cables based on international standards to ensure that your critical application needs are addressed. These cables are designed in metric conductor sizes, have the most suitable insulation material to ensure the key electrical performance, steel wire armoring option & variety of jacketing materials to meet the rigorous installation requirements. These multi pair/triad cables offer high performance & reliability in various verticals ensuring higher uptime & precise operation.

### Application

Belden instrumentation & signal cables are suitable in various applications such as 4-20mA signals, RTD, electronic sensors, measuring devices, field devices, analog & digital signal communications & many more. The requirement for intrinsically safe cables is very important when the cables are being installed in a highly explosive environment & Belden lets you select the right cable as per your installation requirement.

### Product Description

This range of instrumentation & signal cables include cables which are suitable from 300V all the way upto to 1000V applications. You can now design your own cable by selecting:

- 1) Cable type
- 2) Conductor material
- 3) Insulation & Jacket material
- 4) Flame rating
- 5) Insulation & Jacket color codes
- 6) Shielding options

### Verticals

Belden instrumentation & signalling cables meet the highest electrical, mechanical & physical requirements which are required in verticals such as

- Oil & Gas (upstream, midstream & downstream)
- Power (generation, transmission & distribution)
- Automanufacturing
- Machine building
- Petrochemical complex
- Mining Industry
- Manufacturing(Steel, cement, pulp & paper,
- food & beverage)
- Wasterwater treatment
- Intelligent transport & traffic system
- Wind energy

**Be certain.  
Belden.**

## Instrumentation & Signal Cables Pairs Product Range

### CABLE TYPE

Cable Type	Code	Cable Type & Code
Unarmored multi pair cable 300V-EN50288-7	I2	Cable Type:
Unarmored multi pair cable 500V-EN50288-7	I3	Unarmored Multi Pair Cable
Unarmored multi pair cable 600/1000V-IEC 60502-1	I4	Cable Voltage Rating: 300V
SWA armor multi pair cable 300V-EN50288-7	I5	Reference Design Standard: EN50288-7
SWA armor multi pair cable 500V-EN50288-7	I6	Cable Code= I2
SWA armor multi pair cable 600/1000V-IEC 60502-1	I7	

I2 29 C F S 02006

### CONDUCTOR TYPE

Conductor Area (mm <sup>2</sup> )	Bare Copper Code	Tinned Copper Code	Conductor Type & Code
0.50mm <sup>2</sup> IEC 60228-Class-2 Stranding	29	30	Conductor Size: 0.50mm <sup>2</sup>
0.75mm <sup>2</sup> IEC 60228-Class-2 Stranding	31	32	Conductor Stranding: IEC 60228-Class-2 Stranding
1.00mm <sup>2</sup> IEC 60228-Class-2 Stranding	33	34	Conductor Material: Bare Copper
1.50mm <sup>2</sup> IEC 60228-Class-2 Stranding	35	36	Conductor Code= 29
2.50mm <sup>2</sup> IEC 60228-Class-2 Stranding	37	38	

### INSULATION/JACKET TYPE

Insulation/Jacket Type	Code	Insulation/Jacket Type	Code	Insulation/Jacket, Flame Rating Code
PVC/PVC IEC 60332-1	1	PE/FRPVC IEC 60332-3C	7	Insulation Material: XLPE
PE/PVC IEC 60332-1	2	PE/FRLS PVC IEC 60332-3C	8	Jacket/Sheath Material: LSZH
XLPE/PVC IEC 60332-1	3	XLPE/FRPVC IEC 60332-3C	9	Flame Rating: IEC 60332-3C
PE/LSZH IEC 60332-1	4	XLPE/FRLS PVC IEC60332-3C	A	Insulation/Jacket Code: C
FRPVC/FRPVC IEC 60332-3C	5	PE/LSZH IEC 60332-3C	B	
FRLS PVC/FRLS PVC IEC 60332-3C	6	XLPE/LSZH IEC 60332-3C	C	

### INSULATION COLOR

Insulation Color Code	Code	Insulation Color & Code
EN50288-7 Color Code	F	Insulation Color or Standard: EN50288-7(White & Black) 300V
White & Black with numbers	K	Insulation Color Code: F
Blue & Black with numbers	L	

### SHIELDING TYPE

Shield	Code	Shield Type & Code
Unshielded	U	Shield Type: Individual & Overall Foil Shield With Drain Wire
Overall foil Shield with TC drain wire	F	Shield Code: S
Individual & overall foil shield with tinned copper drain wire	S	
Overall foil shield + tinned copper braid	T	

### NUMBER OF PAIRS

No. of Pairs	Code	No. of Pairs	Code	Number of Pairs & Code
1	01	6	06	No. of Pairs: 2
2	02	7	07	No. of Pairs Codes: 02
3	03	8	08	
4	04	9	09	
5	05	10	10	

### INNER & OUTER JACKET COLOR

Jacket/Sheath Color	Code	Jacket/Sheath Color	Code	Inner & Outer Jacket/Sheath Color
Black	010	Chrome	060	Jacket/Sheath Color: Blue
Grey	008	Violet	007	Color Code: 006
Blue	006	Orange	003	

## Technical Information-Instrumentation Cables

### Conductors

Conductors used in designing these cables are in accordance with IEC 60228 / VDE0295 standard:

#### Bare Copper

#### Tinned Copper

Code Selection	Conductor Size(mm <sup>2</sup> )	Conductor Stranding	Stranding Construction	DCR @ 20°C (Ω/Km)	Code Selection	Conductor Size(mm <sup>2</sup> )	Conductor Stranding	Stranding Construction	DCR @ 20°C (Ω/Km)
29	0.50	IEC 60228 Class 2	7/0.31	36.72	30	0.50	IEC 60228 Class 2	7/0.31	37.43
31	0.75	IEC 60228 Class 2	7/0.37	24.99	32	0.75	IEC 60228 Class 2	7/0.37	25.30
33	1.00	IEC 60228 Class 2	7/0.43	18.46	34	1.00	IEC 60228 Class 2	7/0.43	18.56
35	1.50	IEC 60228 Class 2	7/0.52	12.34	36	1.50	IEC 60228 Class 2	7/0.52	12.44
37	2.50	IEC 60228 Class 2	7/0.67	7.56	38	2.50	IEC 60228 Class 2	7/0.67	7.71

### Insulation & Sheath Properties

Insulation/Jacket(Sheath)	Code Selection	Fire/Flame Retardant	Smoke Density	Oil Resistance	UV Resistance	Halogen Acid Gas (IEC 60754-1)	pH Value (IEC 60754-2)	Conductivity (IEC 60754-2)	Temperature Rating	Bending Radius Unarmored Cable	Bending Radius Armored Cable
PVC/PVC	1	IEC 60332-1	-	-	Yes*	-	-	-	-30°C to +70°C	8 X OD	12 X OD
PE/PVC	2	IEC 60332-1	-	-	Yes*	-	-	-	-30°C to +70°C	8 X OD	12 X OD
XLPE/PVC	3	IEC 60332-1	-	-	Yes*	-	-	-	-30°C to +70°C	8 X OD	12 X OD
PE/LSZH	4	IEC 60332-1	40%	-	Yes*	0%	≥4.3	<10 μS/mm	-30°C to +70°C	8 X OD	12 X OD
FRPVC/FRPVC	5	IEC 60332-3C	-	Yes	Yes	≤20%	-	-	-30°C to +90°C	8 X OD	12 X OD
FRLS PVC/FRLS PVC	6	IEC 60332-3C	60%	Yes	Yes	≤20%	-	-	-30°C to +90°C	8 X OD	12 X OD
PE/FRPVC	7	IEC 60332-3C	-	Yes	Yes	≤20%	-	-	-30°C to +75°C	8 X OD	12 X OD
PE/FRLS PVC	8	IEC 60332-3C	60%	Yes	Yes	≤20%	-	-	-30°C to +75°C	8 X OD	12 X OD
XLPE/FRPVC	9	IEC 60332-3C	-	Yes	Yes	≤20%	-	-	-30°C to +90°C	8 X OD	12 X OD
XLPE/FRLS PVC	A	IEC 60332-3C	60%	Yes	Yes	≤20%	-	-	-30°C to +90°C	8 X OD	12 X OD
PE/LSZH	B	IEC 60332-3C	40%	Yes	Yes	0%	≥4.3	<10 μS/mm	-30°C to +75°C	8 X OD	12 X OD
XLPE/LSZH	C	IEC 60332-3C	40%	Yes	Yes	0%	≥4.3	<10 μS/mm	-30°C to +90°C	8 X OD	12 X OD

### Insulation Color Code

Color sequence / codes for these cables are in accordance with the relevant cable standard and can also be based on special requests.

Multi Pair & Triads Instrumentation & Signal Cables (Insulation Color Codes)			
Insulation Color Standard	Cable Type	Code Selection	Color Sequence
EN 50288-7	300V Pairs	F	White & Black with numbers
	500V Pairs	F	Blue & Black with numbers
EN 50288-7	300V Triads	F	White, Black & Red with numbers
	500V Triads	F	Blue, Black & Red with numbers
IEC 60502-1*	600/1000V Pairs	K	White & Black with numbers
IEC 60502-1*	600/1000V Pairs	L	Blue & Black with numbers
IEC 60502-1*	600/1000V Triads	M	White, Black & Red with numbers
IEC 60502-1*	600/1000V Triads	N	Blue, Black & Red with numbers

### Jacket (Sheath) Color Code

Jacket/Sheath Color	Code Selection
Black	010
Grey	008
Blue	006
Chrome	060
Violet	007
Orange	003

### Electrical Performance - EN50288-7

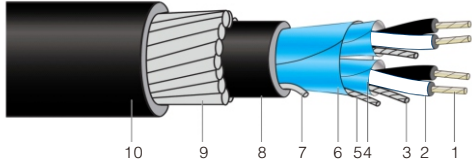
Parameter	Testing Standard	Requirement
Dielectric Strength	EN 50289-1-3	300 V ≥ 1.0 kVac or 2.0 kVac
		500 V ≥ 2.0 kVac or 3.0 kVac
Insulation Resistance	EN 50289-1-4	PVC 10 MΩ*KM
		PE 1000 MΩ*KM
		LSZH 10 MΩ*KM
		XLPE 1000 MΩ*KM
Mutual Capacitance	EN 50289-1-5	Polyolefin < 150 nF/km
		Others < 250 nF/km
Capacitance Unbalance (Pairs/Quads)	EN 50289-1-5	Polyolefin 500 pf/500 m
Inductance To Resistance Ratio ( L / R )	EN50289-1-12	< 25 μH/Ω for up to 1.00mm <sup>2</sup>
		< 40 μH/Ω for 1.50mm <sup>2</sup>
		< 60 μH/Ω for 2.50mm <sup>2</sup>

Abbreviations Key	
PVC	Polyvinyl Chloride
FRPVC	Flame Retardant Polyvinyl Chloride
FRLS PVC	Flame Retardant Low Smoke Polyvinyl Chloride
PE	Polyethylene
PP	Polypropylene
XLPE	Cross Linked Polyethylene
LSZH	Low Smoke Zero Halogen

\*Special color request as suggested by Belden  
Yes\* Special colors only



## Instrumentation & Signal Cables Pairs 300V or 500V - EN 50288-7



- 1 → Conductor
- 2 → Insulation
- 3 → Individual foil shield drain wire
- 4 → Individual foil shield (optional)
- 5 → Overall foil shield drain wire
- 6 → Overall foil shield (optional)
- 7 → Rip Cord
- 8 → Inner sheath for armored cables & outer sheath for unarmored cables
- 9 → Steel wire armor (optional)
- 10 → Outersheath (optional)

### APPLICATION GUIDE

Suitable Application	Suitable Verticals	Suitable Installation Locations*	Product Description*	Mechanical & Electrical Parameters*	Standards*
Analog 4-20mA signaling	Oil, Gas & Petrochemical	Indoor/Outdoor	Twisted pair cables	Temperature Rating: -30°C to +90°C	Conductor as per IEC 60228
Interconnecting sensors	Offshore oil platforms	Direct burial	Flexible copper conductor		Based on EN50288-7
Manufacturing paint shops	Machine building	Cable trays	Flexible Insulation material	Voltage rating: 300V or 500V	Oil resistant
Measuring & control circuits	Pulp & paper	Ducts	Flexible sheath material		UV resistant
Conveyor & transport system	Mining industry	Raceways	Hazardous location		RoHS compliant
Air conditioning & ventilation	Wind turbine generators	Flexible locations	Optional steel wire armor		
Push button stations	Power generation	Intrinsically safe locations-IEC 60079	Optional rodent protection		
Transportation systems	Cement industry				
Traffic signaling	Automobile				
Subways & Tunnels	Intelligent transportation				
	Chemical industry				

### CABLE DESIGN CRITERIA

Cable Type	Code	Conductor Area (mm <sup>2</sup> )	Code		Insulation/Jacket	Code
			Bare Cu	Tinned Cu		
Unarmored multi pair cable 300V	I2	0.50-Class-2 Stranding	29	30	PVC/PVC IEC 60332-1	1
Unarmored multi pair cable 500V	I3	0.75-Class-2 Stranding	31	32	PE/PVC IEC 60332-1	2
Steel wire armor multi pair cable 300V	I5	1.00-Class-2 Stranding	33	34	XLPE/PVC IEC 60332-1	3
Steel wire armor multi pair cable 500V	I6	1.50-Class-2 Stranding	35	36	PE/LSZH IEC 60332-1	4
		2.50-Class-2 Stranding	37	38	FRPVC/FRPVC IEC 60332-3C	5
					FRLS PVC/FRLS PVC IEC 60332-3C	6
					PE/FRPVC IEC 60332-3C	7
					PE/FRLSPVC IEC 60332-3C	8
					XLPE/FRPVC IEC 60332-3C	9
					XLPE/FRLS PVC IEC60332-3C	A
					PE/LSZH IEC 60332-3C	B
					XLPE/LSZH IEC 60332-3C	C
					PVC/PUR-IEC 60332-1	D

Insulation Color Code	Code	Shield	Code	No. of Pairs	Code	Jacket Color	Code
EN 50288-7 color code	F	Unshielded	U	1	01	Black	010
White & Black with numbers	K	Overall foil shield with drain wire	F	2	02	Grey	008
Blue & Black with numbers	L	Individual & overall foil shield with drain wire	S	3	03	Blue	006
		Overall foil + tinned copper braid shield	T	4	04	Chrome	060
				5	05	Violet	007
				6	06	Orange	003
				7	07		
				8	08		
				9	09		
				10	10		

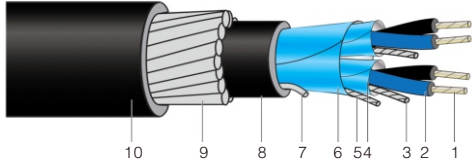
### DESIGN YOUR OWN CABLE BY CREATING THE PART CODE USING CABLE DESIGN CRITERIA

I6	36	A	F	S	02	010
Cable Type Code	Conductor Code	Insulation/Jacket Code	Insulation Color Code	Shield Code	No. of Pairs Code	Jacket Color Code

Above selected part code is an example on how to select the part code code using cable design criteria. Select the correct part code based on the application requirement.

- \*Varies depending on the construction of the cable
- Putup length & tolerance of the cables will vary depending on the construction of the cable
- MOQ will vary depending on the construction of the cable & provided at the time of quotation
- Cable requested outside the above design criteria can be reviewed and quoted

## Instrumentation & Signal Cables Pairs 600/1000V - IEC 60502-1



- 1 → Conductor
- 2 → Insulation
- 3 → Individual foil shield drain wire
- 4 → Individual foil shield (optional)
- 5 → Overall foil shield drain wire
- 6 → Overall foil shield (optional)
- 7 → Rip Cord
- 8 → Inner sheath for armored cables & outer sheath for unarmored cables
- 9 → Steel wire armor (optional)
- 10 → Outersheath (optional)

### APPLICATION GUIDE

Suitable Application	Suitable Verticals	Suitable Installation Locations*	Product Description*	Mechanical & Electrical Parameters*	Standards*
Analog 4-20mA signaling	Oil, Gas & Petrochemical	Indoor/Outdoor	Twisted pair cables	Temperature Rating: -30°C to +90°C	Conductor as per IEC 60228
Interconnecting sensors	Offshore oil platforms	Direct burial	Flexible copper conductor	Voltage rating: 600 / 1000V	Based on IEC 60502-1
Manufacturing paint shops	Machine building	Cable trays	Flexible insulation material		Oil resistant
Measuring & control circuits	Pulp & paper	Ducts	Flexible sheath material		UV resistant
Conveyor & transport system	Mining industry	Raceways	Hazardous location		RoHS compliant
Air conditioning & ventilation	Wind turbine generators	Flexible locations	Optional steel wire armor		
Push button stations	Power generation	Intrinsically safe	Optional rodent protection		
Transportation systems	Cement industry	locations-IEC 60079			
Traffic signaling	Automobile				
Subways & Tunnels	Intelligent transportation				
	Chemical industry				

### CABLE DESIGN CRITERIA

Cable Type	Code	Conductor Area (mm <sup>2</sup> )	Code		Insulation/Jacket	Code
			Bare Cu	Tinned Cu		
Unarmored multi pair cable 600/1000V	I4	1.00-Class-2 Stranding	33	34	FRPVC/FRPVC IEC 60332-3C	5
Steel wire armor multi pair cable 600/1000V	I7	1.50-Class-2 Stranding	35	36	FRLS PVC/FRLS PVC IEC 60332-3C	6
		2.50-Class-2 Stranding	37	38	XLPE/FRPVC IEC 60332-3C	9
					XLPE/FRLS PVC IEC60332-3C	A
					XLPE/LSZH IEC 60332-3C	C

Insulation Color Code	Code	Shield	Code	No. of Pairs	Code	Jacket Color	Code
White & Black with numbers	K	Unshielded	U	1	01	Black	010
Blue & Black with numbers	L	Overall foil shield with drain wire	F	2	02	Grey	008
		Individual & overall foil shield with drain wire	S	3	03	Blue	006
		Overall foil + tinned copper braid shield	T	4	04	Chrome	060
				5	05	Violet	007
				6	06	Orange	003
				7	07		
				8	08		
				9	09		
				10	10		

### DESIGN YOUR OWN CABLE BY CREATING THE PART CODE USING CABLE DESIGN CRITERIA

I7	37	A	L	S	02	010
<b>Cable Type Code</b>	<b>Conductor Code</b>	<b>Insulation/Jacket Code</b>	<b>Insulation Color Code</b>	<b>Shield Code</b>	<b>No. of Pairs Code</b>	<b>Jacket Color Code</b>

Above selected part code is an example on how to select the part code using cable design criteria. Select the correct part code based on the application requirement.

- \*Varies depending on the construction of the cable
- Putup length & tolerance of the cables will vary depending on the construction of the cable
- MOQ will vary depending on the construction of the cable & provided at the time of quotation
- Cable requested outside the above design criteria can be reviewed and quoted

## Instrumentation & Signal Cables Triads Product Range

### CABLE TYPE

Cable Type	Code	Cable Type & Code
Unarmored multi triad cable 300V-EN50288-7	J3	Cable Type: Unarmored Multi Triad Cable
Unarmored multi triad cable 500V-EN50288-7	J4	Cable Voltage Rating: 500V
Unarmored multi triad cable 600/1000V-IEC 60502-1	J5	Reference Design Standard: EN50288-7
SWA armor multi triad cable 300V-EN50288-7	J6	Cable Code= J7
SWA armor multi triad cable 500V-EN50288-7	J7	
SWA armor multi triad cable 600/1000V-IEC 60502-1	J8	

J736 5 M S 04003

### CONDUCTOR TYPE

Conductor Area (mm <sup>2</sup> )	Bare Copper Code	Tinned Copper Code	Conductor Type & Code
0.50mm <sup>2</sup> IEC 60228-Class-2 Stranding	29	30	Conductor Size: 1.50mm <sup>2</sup>
0.75mm <sup>2</sup> IEC 60228-Class-2 Stranding	31	32	Conductor Stranding: IEC 60228-Class-2 Stranding
1.00mm <sup>2</sup> IEC 60228-Class-2 Stranding	33	34	Conductor Material: Tinned Copper
1.50mm <sup>2</sup> IEC 60228-Class-2 Stranding	35	36	Conductor Code= 36
2.50mm <sup>2</sup> IEC 60228-Class-2 Stranding	37	38	

### INSULATION/JACKET TYPE

Insulation/Jacket Type	Code	Insulation/Jacket Type	Code	Insulation/Jacket, Flame Rating Code
PVC/PVC IEC 60332-1	1	PE/FRPVC IEC 60332-3C	7	Insulation Material: FRPVC
PE/PVC IEC 60332-1	2	PE/FRLS PVC IEC 60332-3C	8	Jacket/Sheath Material: FRPVC
XLPE/PVC IEC 60332-1	3	XLPE/FRPVC IEC 60332-3C	9	Flame Rating: IEC 60332-3C
PE/LSZH IEC 60332-1	4	XLPE/FRLS PVC IEC60332-3C	A	Insulation/Jacket Code: 5
FRPVC/FRPVC IEC 60332-3C	5	PE/LSZH IEC 60332-3C	B	
FRLS PVC/FRLS PVC IEC 60332-3C	6	XLPE/LSZH IEC 60332-3C	C	

### INSULATION COLOR

Insulation Color Code	Code	Insulation Color & Code
EN50288-7 Color Code	F	Insulation Color or Standard: White, Black & Red With Numbers
White, Black & Red with numbers	M	Insulation Color Code: M
Blue, Black & Red with numbers	N	

### SHIELDING TYPE

Shield	Code	Shield Type & Code
Unshielded	U	Shield Type: Individual & Overall Foil Shield
Overall foil Shield with TC drain wire	F	With Drain Wire
Individual & overall foil shield with tinned copper drain wire	S	Shield Code: S
Overall foil shield + tinned copper braid	T	

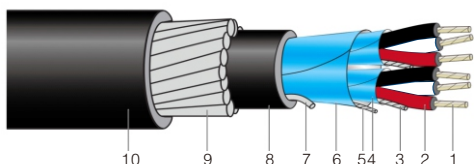
### NUMBER OF TRIADS

No. of Triads	Code	No. of Triads	Code	Number of Triads & Code
1	01	6	06	No. of Triads: 4
2	02	7	07	No. of Triads Codes: 04
3	03	8	08	
4	04	9	09	
5	05	10	10	

### INNER & OUTER JACKET COLOR

Jacket/Sheath Color	Code	Jacket/Sheath Color	Code	Inner & Outer Jacket/Sheath Color
Black	010	Chrome	060	Jacket/Sheath Color: Orange
Grey	008	Violet	007	Color Code: 003
Blue	006	Orange	003	

## Instrumentation & Signal Cables Triads 300V or 500V - EN 50288-7



- 1 → Conductor
- 2 → Insulation
- 3 → Individual foil shield drain wire
- 4 → Individual foil shield (optional)
- 5 → Overall foil shield drain wire
- 6 → Overall foil shield (optional)
- 7 → Rip Cord
- 8 → Inner sheath for armored cables & outer sheath for unarmored cables
- 9 → Steel wire armor (optional)
- 10 → Outersheath (optional)

### APPLICATION GUIDE

Suitable Application	Suitable Verticals	Suitable Installation Locations*	Product Description*	Mechanical & Electrical Parameters*	Standards*
Analog 4-20mA & RTD signaling	Oil, Gas & Petrochemical	Indoor/Outdoor	Twisted triad cables	Temperature Rating: -30°C to +90°C	Conductor as per IEC 60228
Interconnecting sensors	Offshore oil platforms	Direct burial	Flexible copper conductor		Based on EN50288-7
Manufacturing paint shops	Machine building	Cable trays	Flexible Insulation material	Voltage rating: 300V or 500V	Oil resistant
Measuring & control circuits	Pulp & paper	Ducts	Flexible sheath material		UV resistant
Conveyor & transport system	Mining industry	Raceways	Hazardous location		RoHS compliant
Air conditioning & ventilation	Wind turbine generators	Flexible locations	Optional steel wire armor		
Push button stations	Power generation	Intrinsically safe locations-IEC 60079	Optional rodent protection		
Transportation systems	Cement industry				
Traffic signaling	Automobile				
Subways & Tunnels	Intelligent transportation				
	Chemical industry				

### CABLE DESIGN CRITERIA

Cable Type	Code	Conductor Area (mm <sup>2</sup> )	Code		Insulation/Jacket	Code
			Bare Cu	Tinned Cu		
Unarmored multi triad cable 300V	J3	0.50-Class-2 Stranding	29	30	PVC/PVC IEC 60332-1	1
Unarmored multi triad cable 500V	J4	0.75-Class-2 Stranding	31	32	PE/PVC IEC 60332-1	2
Steel wire armor multi triad 300V	J6	1.00-Class-2 Stranding	33	34	XLPE/PVC IEC 60332-1	3
Steel wire armor multi triad 500V	J7	1.50-Class-2 Stranding	35	36	PE/LSZH IEC 60332-1	4
		2.50-Class-2 Stranding	37	38	FRPVC/FRPVC IEC 60332-3C	5
					FRLS PVC/FRLS PVC IEC 60332-3C	6
					PE/FRPVC IEC 60332-3C	7
					PE/FRLSPVC IEC 60332-3C	8
					XLPE/FRPVC IEC 60332-3C	9
					XLPE/FRLS PVC IEC60332-3C	A
					PE/LSZH IEC 60332-3C	B
					XLPE/LSZH IEC 60332-3C	C
					PVC/PUR-IEC 60332-1	D

Insulation Color Code	Code	Shield	Code	No. of Triads	Code	Jacket Color	Code
EN 50288-7 color code	F	Unshielded	U	1	01	Black	010
White, Black & Red with numbers	M	Overall foil shield with drain wire	F	2	02	Grey	008
Blue, Black & Red with numbers	N	Individual & overall foil shield with drain wire	S	3	03	Blue	006
		Overall foil + tinned copper braid shield	T	4	04	Chrome	060
				5	05	Violet	007
				6	06	Orange	003
				7	07		
				8	08		

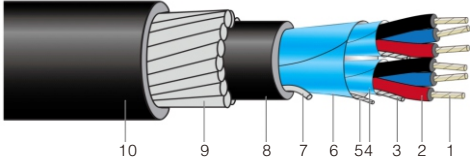
### DESIGN YOUR OWN CABLE BY CREATING THE PART CODE USING CABLE DESIGN CRITERIA

J7	30	5	M	S	02	010
<b>Cable Type Code</b>	<b>Conductor Code</b>	<b>Insulation/Jacket Code</b>	<b>Insulation Color Code</b>	<b>Shield Code</b>	<b>No. of Triads Code</b>	<b>Jacket Color Code</b>

Above selected part code is an example on how to select the part code using cable design criteria. Select the correct part code based on the application requirement.

- \*Varies depending on the construction of the cable
- Putup length & tolerance of the cables will vary depending on the construction of the cable
- MOQ will vary depending on the construction of the cable & provided at the time of quotation
- Cable requested outside the above design criteria can be reviewed and quoted

## Instrumentation & Signal Cables Triads 600/1000V - IEC 60502-1



- 1 → Conductor
- 2 → Insulation
- 3 → Individual foil shield drain wire
- 4 → Individual foil shield (optional)
- 5 → Overall foil shield drain wire
- 6 → Overall foil shield (optional)
- 7 → Rip Cord
- 8 → Inner sheath for armored cables & outer sheath for unarmored cables
- 9 → Steel wire armor (optional)
- 10 → Outer sheath (optional)

### APPLICATION GUIDE

Suitable Application	Suitable Verticals	Suitable Installation Locations*	Product Description*	Mechanical & Electrical Parameters*	Standards*
Analog 4-20mA & RTD signaling	Oil, Gas & Petrochemical	Indoor/Outdoor	Twisted triad cables	Temperature Rating: -30°C to +90°C	Conductor as per IEC 60228
Interconnecting sensors	Offshore oil platforms	Direct burial	Flexible copper conductor	Voltage rating: 300V or 500V	Based on IEC 60502-1
Manufacturing paint shops	Machine building	Cable trays	Flexible Insulation material		Oil resistant
Measuring & control circuits	Pulp & paper	Ducts	Flexible sheath material		UV resistant
Conveyor & transport system	Mining industry	Raceways	Hazardous location		RoHS compliant
Air conditioning & ventilation	Wind turbine generators	Flexible locations	Optional steel wire armor		
Push button stations	Power generation	Intrinsically safe locations-IEC 60079	Optional rodent protection		
Transportation systems	Cement industry				
Traffic signaling	Automobile				
Subways & Tunnels	Intelligent transportation				
	Chemical industry				

### CABLE DESIGN CRITERIA

Cable Type	Code	Conductor Area (mm <sup>2</sup> )	Code		Insulation/Jacket	Code
			Bare Cu	Tinned Cu		
Unarmored multi triad cable 600/1000V	J5	1.00-Class-2 Stranding	33	34	FRPVC/FRPVC IEC 60332-3C	5
Steel wire armor multi triad cable 600/1000V	J8	1.50-Class-2 Stranding	35	36	FRLS PVC/FRLS PVC IEC 60332-3C	6
		2.50-Class-2 Stranding	37	38	XLPE/FRPVC IEC 60332-3C	9
					XLPE/FRLS PVC IEC60332-3C	A
					XLPE/LSZH IEC 60332-3C	C

Insulation Color Code	Code	Shield	Code	No. of Triads	Code	Jacket Color	Code
White, Black & Red with numbers	M	Unshielded	U	1	01	Black	010
Blue, Black & Red with numbers	N	Overall foil shield with drain wire	F	2	02	Grey	008
		Individual & overall foil shield with drain wire	S	3	03	Blue	006
		Overall foil + tinned copper braid shield	T	4	04	Chrome	060
				5	05	Violet	007
				6	06	Orange	003
				7	07		
				8	08		

### DESIGN YOUR OWN CABLE BY CREATING THE PART CODE USING CABLE DESIGN CRITERIA

J8	36	C	N	S	02	010
<b>Cable Type Code</b>	<b>Conductor Code</b>	<b>Insulation/Jacket Code</b>	<b>Insulation Color Code</b>	<b>Shield Code</b>	<b>No. of Triads Code</b>	<b>Jacket Color Code</b>

Above selected part code is an example on how to select the part code code using cable design criteria. Select the correct part code based on the application requirement.

- \*Varies depending on the construction of the cable
- Putup length & tolerance of the cables will vary depending on the construction of the cable
- MOQ will vary depending on the construction of the cable & provided at the time of quotation
- Cable requested outside the above design criteria can be reviewed and quoted