

No:		DATA SHEET		Supplier:	
Date:					
Low voltage power cable 0.6/1(1.2) kV,		Standard: IEC 60502-1 & ITS-MC28			
Cable Structure:					
CU-CL.5/PVC/PVC/TDW/TCWB/PET/PVC					
TECHNICAL SPECIFICATION FOR CABLES WITH BRAID SCREEN					
Item	DESCRIPTION	SPECIFICATION		STANDARDS	
1	Cable Size:	2*1.5mm ²			
2	Conductor	Material: soft annealed copper		IEC 60228	
		Class:5			
		Max. diameter of wire: 0.25 mm			
3	Insulation	Material: PVC(A)		IEC 60502-1& IEC 60227 & ITS-MC28	
		Operation temp.: 70 °C			
		Thickness: 0.8mm			
		Core colors: Blue, Brown			
4	Polyester band (1)	Thickness: 0.03 mm (Overlap: (10-20)%)		Ripcord under filler	
5	Filler	Material: PVC(A)		IEC 60502-1	
		Operation temp.: 70 °C			
		Thickness: 1mm			
		Color: Black			
6	Earth conductor	Material: soft annealed tinned copper		ITS-MC28	
		Class:2 parallel round			
		Construction: 7*(0.55 mm±0.01mm)			
		Stranded tinned copper wire			
7	Metallic screen	Material: Braiding of soft tinned copper		ITS-MC28	
		Nominal wire diameter: 0.20 mm			
		Coverage: (70-80)%		ITS-MC28	
8	Polyester band	Overlap: 50%		ITS-MC28	
		Thickness: 0.03 mm			
9	Outer jacket	Material: PVC(ST2)			
		Operation temp.: 90 °C			
		Thickness: 1.8 mm			
		Color: Black			
10	Overall diameter approx.	≅ 13 mm			
11	Max. dc conductor resistance at 20°C	13.30 Ω/km		IEC 60228	
12	Min. Insulation resistance constant at 20 °C & 70 °C	MΩ. km			
13	Short circuit current	0.161 kA at 1 second			
14	High voltage test	2 kv ac or 4.8 kv dc for 5 min			
15	Working temperature	-25 to +70 °C			
16	Min. bending radius at -25 °c	8 x D (Overall diameter)			
17	Flame retardant test	As per IEC60332-1			
18	Cable length (per drum)	Min.: 500 M Max.: 1000 M			
19	Drum	Material: Wooden			
		Size: Depend on cable cutting			
Compild by: Hamid Tavakkoli					

(1) This layer is added between bedding and wires. No need to use talcum powder.

Note: The bedding should be completely adhered to the insulation and the wire strands should not rotate inside the bedding.

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Low voltage power cable 0.6/1(1.2) kV, Standard: IEC 60502-1 & ITS-MC28					
Cable Structure: CU-CL.5/PVC/PVC/TDW/TCWB/PET/PVC					
TECHNICAL SPECIFICATION FOR CABLES WITH BRAID SCREEN					
Item	DESCRIPTION	SPECIFICATION		STANDARDS	
1	Cable Size:	3*1.5mm²			
2	Conductor	Material: soft annealed copper		IEC 60228	
		Class:5			
		Max. diameter of wire: 0.25 mm			
3	Insulation	Material: PVC(A)		IEC 60502-1& IEC 60227 & ITS-MC28	
		Operation temp.: 70 °C			
		Thickness: 0.8mm			
		Core colors: Brown, Black, Blue			
4	Polyester band (1)	Thickness: 0.03 mm (Overlap: (10-20)%)		Ripcord under filler	
5	Filler	Material: PVC(A)		IEC 60502-1	
		Operation temp.: 70 °C			
		Thickness: 1mm			
		Color: Black			
6	Earth conductor	Material: soft annealed tinned copper		ITS-MC28	
		Class:2 parallel round			
		Construction: 7*(0.55 mm±0.01mm)			
		Stranded tinned copper wire			
7	Metallic screen	Material: Braiding of soft tinned copper		ITS-MC28	
		Nominal wire diameter: 0.20 mm			
		Coverage: (70-80)%		ITS-MC28	
8	Polyester band	Overlap: 50%		ITS-MC28	
		Thickness: 0.03 mm			
9	Outer jacket	Material: PVC(ST2)			
		Operation temp.: 90 °C			
		Thickness: 1.8 mm			
		Color: Black			
10	Overall diameter approx.	≅ 13 mm			
11	Max. dc conductor resistance at 20°C	13.30 Ω/km		IEC 60228	
12	Min. Insulation resistance constant at 20 °C & 70 °C	MΩ. km			
13	Short circuit current	0.161 kA at 1 second			
14	High voltage test	2 kv ac or 4.8 kv dc for 5 min			
15	Working temperature	-25 to +70 °C			
16	Min. bending radius at -25 °c	8 x D (Overall diameter)			
17	Flame retardant test	As per IEC60332-1			
18	Cable length (per drum)	Min.: 500 M Max.: 1000 M			
19	Drum	Material: Wooden			
		Size: Depend on cable cutting			
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Low voltage power cable 0.6/1(1.2) kV, Standard: IEC 60502-1 & ITS-MC28					
Cable Structure: CU-CL.5/PVC/PVC/TDW/TCWB/PET/PVC					
TECHNICAL SPECIFICATION FOR CABLES WITH BRAID SCREEN					
Item	DESCRIPTION	SPECIFICATION		STANDARDS	
1	Cable Size:	4*1.5mm ²			
2	Conductor	Material: soft annealed copper		IEC 60228	
		Class:5			
		Max. diameter of wire: 0.25 mm			
3	Insulation	Material: PVC(A)		IEC 60502-1& IEC 60227 & ITS-MC28	
		Operation temp.: 70 °C			
		Thickness: 0.8mm			
		Core colors: Brown, Black, Grey , Blue			
4	Polyester band (1)	Thickness: 0.03 mm (Overlap: (10-20)%)		Ripcord under filler	
5	Filler	Material: PVC(A)		IEC 60502-1	
		Operation temp.: 70 °C			
		Thickness: 1mm			
		Color: Black			
6	Earth conductor	Material: soft annealed tinned copper		ITS-MC28	
		Class:2 parallel round			
		Construction: 7*(0.55 mm±0.01mm)			
		Stranded tinned copper wire			
7	Metallic screen	Material: Braiding of soft tinned copper		ITS-MC28	
		Nominal wire diameter: 0.20 mm			
		Coverage: (70-80)%		ITS-MC28	
8	Polyester band	Overlap: 50%		ITS-MC28	
		Thickness: 0.03 mm			
9	Outer jacket	Material: PVC(ST2)			
		Operation temp.: 90 °C			
		Thickness: 1.8 mm			
		Color: Black			
10	Overall diameter approx.	≅ 14 mm			
11	Max. dc conductor resistance at 20°C	13.30 Ω/km		IEC 60228	
12	Min. Insulation resistance constant at 20 °C & 70 °C	MΩ. km			
13	Short circuit current	0.161 kA at 1 second			
14	High voltage test	2 kv ac or 4.8 kv dc for 5 min			
15	Working temperature	-25 to +70 °C			
16	Min. bending radius at -25 °c	8 x D (Overall diameter)			
17	Flame retardant test	As per IEC60332-1			
18	Cable length (per drum)	Min.: 500 M Max.: 1000 M			
19	Drum	Material: Wooden			
		Size: Depend on cable cutting			
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Low voltage power cable 0.6/1(1.2) kV, Standard: IEC 60502-1 & ITS-MC28					
Cable Structure: CU-CL.5/PVC/PVC/TDW/TCWB/PET/PVC					
TECHNICAL SPECIFICATION FOR CABLES WITH BRAID SCREEN					
Item	DESCRIPTION	SPECIFICATION		STANDARDS	
1	Cable Size:	6*1.5mm ²			
2	Conductor	Material: soft annealed copper		IEC 60228	
		Class:5			
		Max. diameter of wire: 0.25 mm			
3	Insulation	Material: PVC(A)		IEC 60502-1& IEC 60227 & ITS-MC28	
		Operation temp.: 70 °C			
		Thickness: 0.8mm			
		Core colors: Brown, Black, Grey , Blue ,Red , Yellow			
4	Polyester band (1)	Thickness: 0.03 mm (Overlap: (10-20)%)		Ripcord under filler	
5	Filler	Material: PVC(A)		IEC 60502-1	
		Operation temp.: 70 °C			
		Thickness: 1mm			
		Color: Black			
6	Earth conductor	Material: soft annealed tinned copper		ITS-MC28	
		Class:2 parallel round			
		Construction: 7*(0.55 mm±0.01mm) Stranded tinned copper wire			
7	Metallic screen	Material: Braiding of soft tinned copper		ITS-MC28	
		Nominal wire diameter: 0.20 mm		ITS-MC28	
		Coverage: (70-80)%			
8	Polyester band	Overlap: 50%		ITS-MC28	
		Thickness: 0.03 mm			
9	Outer jacket	Material: PVC(ST2)			
		Operation temp.: 90 °C			
		Thickness: 1.8 mm			
		Color: Black			
10	Overall diameter approx.	≅ 16 mm			
11	Max. dc conductor resistance at 20°C	13.30 Ω/km		IEC 60228	
12	Min. Insulation resistance constant at 20 °C & 70 °C	MΩ. km			
13	Short circuit current	0.161 kA at 1 second			
14	High voltage test	2 kv ac or 4.8 kv dc for 5 min			
15	Working temperature	-25 to +70 °C			
16	Min. bending radius at -25 °c	8 x D (Overall diameter)			
17	Flame retardant test	As per IEC60332-1			
18	Cable length (per drum)	Min.: 500 M Max.: 1000 M			
19	Drum	Material: Wooden			
		Size: Depend on cable cutting			
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Low voltage power cable 0.6/1(1.2) kV, Standard: IEC 60502-1 & ITS-MC28					
Cable Structure: CU-CL.5/PVC/PVC/TDW/TCWB/PET/PVC					
TECHNICAL SPECIFICATION FOR CABLES WITH BRAID SCREEN					
Item	DESCRIPTION	SPECIFICATION		STANDARDS	
1	Cable Size:	3*2.5mm ²			
2	Conductor	Material: soft annealed copper		IEC 60228	
		Class:5			
		Max. diameter of wire: 0.25 mm			
3	Insulation	Material: PVC(A)		IEC 60502-1& IEC 60227 & ITS-MC28	
		Operation temp.: 70 °C			
		Thickness: 0.8mm			
		Core colors: Brown, Black, Blue			
4	Polyester band (1)	Thickness: 0.03 mm (Overlap: (10-20)%)		Ripcord under filler	
5	Filler	Material: PVC(A)		IEC 60502-1	
		Operation temp.: 70 °C			
		Thickness: 1mm			
		Color: Black			
6	Earth conductor	Material: soft annealed tinned copper		ITS-MC28	
		Class:2 parallel round			
		Construction: 7*(0.55 mm±0.01mm)			
		Stranded tinned copper wire			
7	Metallic screen	Material: Braiding of soft tinned copper		ITS-MC28	
		Nominal wire diameter: 0.20 mm		ITS-MC28	
		Coverage: (70-80)%			
8	Polyester band	Overlap: 50%		ITS-MC28	
		Thickness: 0.03 mm			
9	Outer jacket	Material: PVC(ST2)			
		Operation temp.: 90 °C			
		Thickness: 1.8 mm			
		Color: Black			
10	Overall diameter approx.	≅ 14 mm			
11	Max. dc conductor resistance at 20°C	7.98 Ω/km		IEC 60228	
12	Min. Insulation resistance constant at 20 °C & 70 °C	MΩ. km			
13	Short circuit current	0.296 kA at 1 second			
14	High voltage test	2 kv ac or 4.8 kv dc for 5 min			
15	Working temperature	-25 to +70 °C			
16	Min. bending radius at -25 °c	8 x D (Overall diameter)			
17	Flame retardant test	As per IEC60332-1			
18	Cable length (per drum)	Min.: 500 M Max.: 1000 M			
19	Drum	Material: Wooden			
		Size: Depend on cable cutting			
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Low voltage power cable 0.6/1(1.2) kV, Standard: IEC 60502-1 & ITS-MC28					
Cable Structure: CU-CL.5/PVC/PVC/TDW/TCWB/PET/PVC					
TECHNICAL SPECIFICATION FOR CABLES WITH BRAID SCREEN					
Item	DESCRIPTION	SPECIFICATION		STANDARDS	
1	Cable Size:	2*4 mm²			
2	Conductor	Material: soft annealed copper		IEC 60228	
		Class:5			
		Max. diameter of wire: 0.25 mm			
3	Insulation	Material: PVC(A)		IEC 60502-1& IEC 60227 & ITS-MC28	
		Operation temp.: 70 °C			
		Thickness: 1mm			
		Core colors: Blue, Brown			
4	Polyester band (1)	Thickness: 0.03 mm (Overlap: (10-20)%)		Ripcord under filler	
5	Filler	Material: PVC(A)		IEC 60502-1	
		Operation temp.: 70 °C			
		Thickness: 1mm			
		Color: Black			
6	Earth conductor	Material: soft annealed tinned copper		ITS-MC28	
		Class:2 parallel round			
		Construction: 7*(0.55 mm±0.01mm)			
		Stranded tinned copper wire			
7	Metallic screen	Material: Braiding of soft tinned copper		ITS-MC28	
		Nominal wire diameter: 0.20 mm			
		Coverage: (70-80)%		ITS-MC28	
8	Polyester band	Overlap: 50%		ITS-MC28	
		Thickness: 0.03 mm			
9	Outer jacket	Material: PVC(ST2)			
		Operation temp.: 90 °C			
		Thickness: 1.8 mm			
		Color: Black			
10	Overall diameter approx.	≅ 15.5 mm			
11	Max. dc conductor resistance at 20°C	Max. 4.95 Ω/km		IEC 60228	
12	Min. Insulation resistance constant at 20 °C & 70 °C	MΩ. km			
13	Short circuit current	0.430 kA at 1 second			
14	High voltage test	3.5 kv ac or 8.4 kv dc for 5 min			
15	Working temperature	-25 to +70 °C			
16	Min. bending radius at -25 °c	8 x D (Overall diameter)			
17	Flame retardant test	As per IEC60332-1			
18	Cable length (per drum)	Min.: 500 M Max.: 1000 M			
19	Drum	Material: Wooden			
		Size: Depend on cable cutting			
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Cable Structure: CU-CL.5/PVC/PVC/TDW/TCWB/PET/PVC					
TECHNICAL SPECIFICATION FOR CABLES WITH BRAID SCREEN					
Item	DESCRIPTION	SPECIFICATION		STANDARDS	
1	Cable Size:	3*4 mm²			
2	Conductor	Material: soft annealed copper		IEC 60228	
		Class:5			
		Max. diameter of wire: 0.25 mm			
3	Insulation	Material: PVC(A)		IEC 60502-1& IEC 60227 & ITS-MC28	
		Operation temp.: 70 °C			
		Thickness: 1mm			
		Core colors: Brown, Black, Blue			
4	Polyester band (1)	Thickness: 0.03 mm (Overlap: (10-20)%)		Ripcord under filler	
5	Filler	Material: PVC(A)		IEC 60502-1	
		Operation temp.: 70 °C			
		Thickness: 1mm			
		Color: Black			
6	Earth conductor	Material: soft annealed tinned copper		ITS-MC28	
		Class:2 parallel round			
		Construction: 7*(0.55 mm±0.01mm)			
		Stranded tinned copper wire			
7	Metallic screen	Material: Braiding of soft tinned copper		ITS-MC28	
		Nominal wire diameter: 0.20 mm		ITS-MC28	
		Coverage: (70-80)%			
8	Polyester band	Overlap: 50%		ITS-MC28	
		Thickness: 0.03 mm			
9	Outer jacket	Material: PVC(ST2)			
		Operation temp.: 90 °C			
		Thickness: 1.8 mm			
		Color: Black			
10	Overall diameter approx.	≅ 16 mm			
11	Max. dc conductor resistance at 20°C	Max. 4.95 Ω/km		IEC 60228	
12	Min. Insulation resistance constant at 20 °C & 70 °C	MΩ. km			
13	Short circuit current	0.430 kA at 1 second			
14	High voltage test	3.5 kv ac or 8.4 kv dc for 5 min			
15	Working temperature	-25 to +70 °C			
16	Min. bending radius at -25 °c	8 x D (Overall diameter)			
17	Flame retardant test	As per IEC60332-1			
18	Cable length (per drum)	Min.: 500 M Max.: 1000 M			
19	Drum	Material: Wooden			
		Size: Depend on cable cutting			
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Cable Structure: CU-CL.5/PVC/PVC/TDW/TCWB/PET/PVC					
TECHNICAL SPECIFICATION FOR CABLES WITH BRAID SCREEN					
Item	DESCRIPTION	SPECIFICATION		STANDARDS	
1	Cable Size:	4*4 mm²			
2	Conductor	Material: soft annealed copper		IEC 60228	
		Class:5			
		Max. diameter of wire: 0.25 mm			
3	Insulation	Material: PVC(A)		IEC 60502-1& IEC 60227 & ITS-MC28	
		Operation temp.: 70 °C			
		Thickness: 1mm			
		Core colors: Brown, Black, Grey , Blue			
4	Polyester band (1)	Thickness: 0.03 mm (Overlap: (10-20)%)		Ripcord under filler	
5	Filler	Material: PVC(A)		IEC 60502-1	
		Operation temp.: 70 °C			
		Thickness: 1mm			
		Color: Black			
6	Earth conductor	Material: soft annealed tinned copper		ITS-MC28	
		Class:2 parallel round			
		Construction: 7*(0.55 mm±0.01mm)			
		Stranded tinned copper wire			
7	Metallic screen	Material: Braiding of soft tinned copper		ITS-MC28	
		Nominal wire diameter: 0.20 mm		ITS-MC28	
		Coverage: (70-80)%			
8	Polyester band	Overlap: 50%		ITS-MC28	
		Thickness: 0.03 mm			
9	Outer jacket	Material: PVC(ST2)			
		Operation temp.: 90 °C			
		Thickness: 1.8 mm			
		Color: Black			
10	Overall diameter	Max. 17.5 mm			
11	Max. dc conductor resistance at 20°C	Max. 4.95 Ω/km		IEC 60228	
12	Min. Insulation resistance constant at 20 °C & 70 °C	MΩ. km			
13	Short circuit current	0.430 kA at 1 second			
14	High voltage test	3.5 kv ac or 8.4 kv dc for 5 min			
15	Working temperature	-25 to +70 °C			
16	Min. bending radius at -25 °c	8 x D (Overall diameter)			
17	Flame retardant test	As per IEC60332-1			
18	Cable length (per drum)	Min.: 500 M Max.: 1000 M			
19	Drum	Material: Wooden			
		Size: Depend on cable cutting			
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Cable Structure: CU-CL.5/PVC/PVC/TDW/TCWB/PET/PVC					
TECHNICAL SPECIFICATION FOR CABLES WITH BRAID SCREEN					
Item	DESCRIPTION	SPECIFICATION			STANDARDS
1	Cable Size:	5*4 mm ²			
2	Conductor	Material: soft annealed copper			IEC 60228
		Class:5			
		Max. diameter of wire: 0.25 mm			
3	Insulation	Material: PVC(A)			IEC 60502-1& IEC 60227 & ITS-MC28
		Operation temp.: 70 °C			
		Thickness: 1mm			
		Core colors: Brown, Black, Grey , Blue ,Red			
4	Polyester band (1)	Thickness: 0.03 mm (Overlap: (10-20)%)			Ripcord under filler
5	Filler	Material: PVC(A)			IEC 60502-1
		Operation temp.: 70 °C			
		Thickness: 1mm			
		Color: Black			
6	Earth conductor	Material: soft annealed tinned copper			ITS-MC28
		Class:2 parallel round			
		Construction: 7*(0.55 mm±0.01mm) Stranded tinned copper wire			
7	Metallic screen	Material: Braiding of soft tinned copper			ITS-MC28
		Nominal wire diameter: 0.20 mm			
		Coverage: (70-80)%			ITS-MC28
8	Polyester band	Overlap: 50%			ITS-MC28
		Thickness: 0.03 mm			
9	Outer jacket	Material: PVC(ST2)			
		Operation temp.: 90 °C			
		Thickness: 1.8 mm			
		Color: Black			
10	Overall diameter	Max. 18mm			
11	Max. dc conductor resistance at 20°C	Max. 4.95 Ω/km			IEC 60228
12	Min. Insulation resistance constant at 20 °C & 70 °C	MΩ. km			
13	Short circuit current	0.430 kA at 1 second			
14	High voltage test	3.5 kv ac or 8.4 kv dc for 5 min			
15	Working temperature	-25 to +70 °C			
16	Min. bending radius at -25 °c	8 x D (Overall diameter)			
17	Flame retardant test	As per IEC60332-1			
18	Cable length (per drum)	Min.: 500 M Max.: 1000 M			
19	Drum	Material: Wooden			
		Size: Depend on cable cutting			
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