

Hangzhou Easy Electric Wire and Cable Co.,LTD

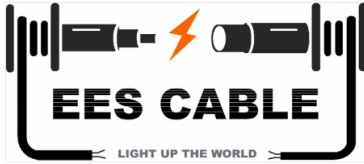
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Test Certificate (ACS strand wire 7/2.25mm, 20.3% IACS)

	Description	Technical Particulars(after strand)	Test Data						
1	Numbers of Drums		1/165						
2	Length(M)/Drum		6000(+5)						
3	Overall Diameter	Nom.: 6.75mm Min.: 6.65mm Max.: 6.85mm	6.75						
4	DC Resistance (Max.)	3.0626Ω/km	2.857						
5	Lay Ratio	16-26	19.25						
6	Lay Direction	Left	Left						
7	Surface	free from any joints /welding's with smooth surface finish	ok						
8	Single Wire Diameter	Nom.: 2.25mm Min.: 2.21mm Max.: 2.29mm	2.25	2.25	2.25	2.25	2.25	2.25	2.25
9	Max. Resistivity at 20°C	84.8Ω mm ² / Km	0.07854	0.0789	0.07878	0.07905	0.07874	0.07846	0.07921
10	Thickness of Aluminum (mm)	10% of Nominal Wire Radius (Min. 0.113mm)	0.118	0.12	0.117	0.119	0.118	0.117	0.009
11	Breaking Laod (KN)	Min.: 1340Mpa	1366	1365	1398	1381	1347	1377	1385
12	% Elongation on 250 mm G.L	Min.1.5(at fracture)/Min.1.0(after fracture)	2.51/1.2	2.29/1.6	2.35/1.4	2.53/1.6	2.65/1.6	2.58/1.4	2.26/1.1
13	Torsion Test(100xD)	Min.20	51	53	47	50	49	53	55
14	Stress at 1% Extension (KN)	Min.: 1200Mpa	1219						

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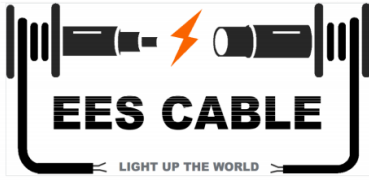
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Test Certificate (ACS strand wire 7/2.25mm, 20.3% IACS)

	Description	Technical Particulars(after strand)	Test Data						
1	Numbers of Drums		4#						
2	Length(M)/Drum		6000(+5)						
3	Overall Diameter	Nom.: 6.75mm Min.: 6.65mm Max.: 6.85mm	6.75						
4	DC Resistance (Max.)	3.0626Ω/km	2.878						
5	Lay Ratio	16-26	19.11						
6	Lay Direction	Left	Left						
7	Surface	free from any joints /welding's with smooth surface finish	ok						
8	Single Wire Diameter	Nom.: 2.25mm Min.: 2.21mm Max.: 2.29mm	2.25	2.25	2.25	2.25	2.25	2.25	2.25
9	Max. Resistivity at 20°C	84.8Ω mm ² / Km	0.0789	0.07862	0.07917	0.07980	0.07878	0.07886	0.0787
10	Thickness of Aluminum (mm)	10% of Nominal Wire Radius (Min. 0.113mm)	0.118	0.12	0.117	0.118	0.118	0.12	0.117
11	Breaking Load (KN)	Min.: 1340Mpa	1382	1357	1378	1379	1368	1386	1364
12	% Elongation on 250 mm G.L	Min.1.5(at fracture)/Min.1.0(after fracture)	2.62/1.4	2.59/1.6	2.30/1.4	2.61/1.6	2.53/1.6	2.37/1.4	2.49/1.6
13	Torsion Test(100xD)	Min.20	49	53	55	50	48	57	52
14	Stress at 1% Extension (KN)	Min.: 1200Mpa	1239						

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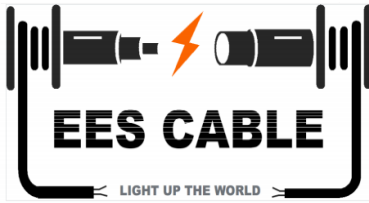
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Test Certificate (ACS strand wire 7/2.25mm, 20.3% IACS)

	Description	Technical Particulars(after strand)	Test Data						
1	Numbers of Drums		12#						
2	Length(M)/Drum		6000(+5)						
3	Overall Diameter	Nom.: 6.75mm Min.: 6.65mm Max.: 6.85mm	6.73						
4	DC Resistance (Max.)	3.0626Ω/km	2.866						
5	Lay Ratio	16-26	19.11						
6	Lay Direction	Left	Left						
7	Surface	free from any joints /welding's with smooth surface finish	ok						
8	Single Wire Diameter	Nom.: 2.25mm Min.: 2.21mm Max.: 2.29mm	2.25	2.25	2.25	2.25	2.25	2.25	2.25
9	Max. Resistivity at 20°C	84.8Ω mm ² / Km	0.0791	0.07945	0.07886	0.07922	0.07914	0.07898	0.07906
10	Thickness of Aluminum (mm)	10% of Nominal Wire Radius (Min. 0.113mm)	0.118	0.117	0.12	0.118	0.12	0.115	0.117
11	Breaking Load (KN)	Min.: 1340Mpa	1403	1386	1401	1397	1380	1396	1403
12	% Elongation on 250 mm G.L	Min.1.5(at fracture)/Min.1.0(after fracture)	2.23/1.2	2.21/1.4	2.38/1.6	2.42/1.4	2.61/1.4	2.56/1.6	2.52/1.4
13	Torsion Test(100xD)	Min.20	57	55	50	53	54	54	55
14	Stress at 1% Extension (KN)	Min.: 1200Mpa	1241						

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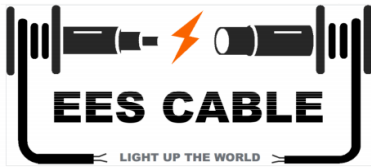
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Test Certificate (ACS strand wire 7/2.25mm, 20.3% IACS)

No.	Description	Technical Particulars(after strand)	Test Data						
1	Numbers of Drums		16#						
2	Length(M)/Drum		6000(+5)						
3	Overall Diameter	Nom.: 6.75mm Min.: 6.65mm Max.: 6.85mm	6.75						
4	DC Resistance (Max.)	3.0626Ω/km	2.895						
5	Lay Ratio	16-26	20.29						
6	Lay Direction	Left	Left						
7	Surface	free from any joints /welding's with smooth surface finish	ok						
8	Single Wire Diameter	Nom.: 2.25mm Min.: 2.21mm Max.: 2.29mm	2.24	2.26	2.26	2.26	2.26	2.26	2.26
9	Max. Resistivity at 20°C	84.8Ω mm ² / Km	0.7797	0.08081	0.07994	0.07975	0.08026	0.08014	0.08022
10	Thickness of Aluminum (mm)	10% of Nominal Wire Radius (Min. 0.113mm)	0.124	0.114	0.119	0.12	0.117	0.115	0.117
11	Breaking Load (KN)	Min.: 1340Mpa	1351	1359	1412	1380	1408	1407	1400
12	% Elongation on 250 mm G.L	Min.1.5(at fracture)/Min.1.0(after fracture)	2.28/1.4	2.42/1.2	2.39/1.2	2.21/1.4	2.23/1.2	1.98/1	2.20/1.2
13	Torsion Test(100xD)	Min.20	54	46	44	47	42	46	50
14	Stress at 1% Extension (KN)	Min.: 1200Mpa	1263						

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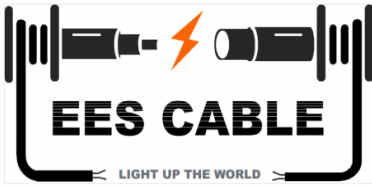
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No.	Description	Technical Particulars(after strand)	Test Data						
1	Numbers of Drums		22#						
2	Length(M)/Drum		6000(+5)						
3	Overall Diameter	Nom.: 6.75mm Min.: 6.65mm Max.: 6.85mm	6.75						
4	DC Resistance (Max.)	3.0626Ω/km	2.893						
5	Lay Ratio	16-26	19.55						
6	Lay Direction	Left	Left						
7	Surface	free from any joints /welding's with smooth surface finish	ok						
8	Single Wire Diameter	Nom.: 2.25mm Min.: 2.21mm Max.: 2.29mm	2.26	2.24	2.24	2.25	2.25	2.25	2.25
9	Max. Resistivity at 20°C	84.8Ω mm ² / Km	0.07908	0.07797	0.07824	0.07964	0.07925	0.08022	0.07897
10	Thickness of Aluminum (mm)	10% of Nominal Wire Radius (Min. 0.113mm)	0.117	0.115	0.119	0.121	0.117	0.114	0.115
11	Breaking Load (KN)	Min.: 1340Mpa	1383	1362	1402	1365	1390	1380	1390
12	% Elongation on 250 mm G.L	Min.1.5(at fracture)/Min.1.0(after fracture)	2.18/1.2	2.16/1.2	1.93/1	2.25/1.2	2.31/1.2	2.48/1.4	2.51/1.2
13	Torsion Test(100xD)	Min.20	52	47	50	49	54	51	49
14	Stress at 1% Extension (KN)	Min.: 1200Mpa	1253						

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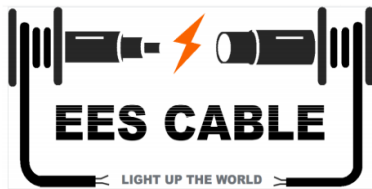
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Test Certificate (ACS strand wire 7/2.25mm, 20.3% IACS)

	Description	Technical Particulars(after strand)	Test Data						
1	Numbers of Drums		27#						
2	Length(M)/Drum		6000(+5)						
3	Overall Diameter	Nom.: 6.75mm Min.: 6.65mm Max.: 6.85mm	6.75						
4	DC Resistance (Max.)	3.0626Ω/km	2.886						
5	Lay Ratio	16-26	20.14						
6	Lay Direction	Left	Left						
7	Surface	free from any joints /welding's with smooth surface finish	ok						
8	Single Wire Diameter	Nom.: 2.25mm Min.: 2.21mm Max.: 2.29mm	2.25	2.25	2.25	2.25	2.25	2.25	2.25
9	Max. Resistivity at 20°C	84.8Ω mm ² / Km	0.07951	0.08002	0.07975	0.07936	0.07947	0.07873	0.07916
10	Thickness of Aluminum (mm)	10% of Nominal Wire Radius (Min. 0.113mm)	0.115	0.119	0.117	0.114	0.119	0.119	0.12
11	Breaking Load (KN)	Min.: 1340Mpa	1399	1424	1409	1389	1414	1434	1419
12	% Elongation on 250 mm G.L	Min.1.5(at fracture)/Min.1.0(after fracture)	2.27/1.2	2.22/1	2.18/1.2	2.18/1.2	2.16/1	2.21/1	2.36/1.2
13	Torsion Test(100xD)	Min.20	49	50	47	45	54	50	52
14	Stress at 1% Extension (KN)	Min.: 1200Mpa	1263						

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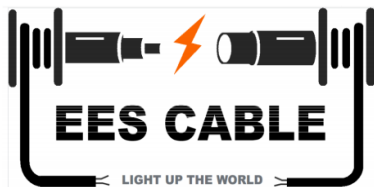
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Test Certificate (ACS strand wire 7/2.25mm, 20.3% IACS)

	Description	Technical Particulars(after strand)	Test Data						
1	Numbers of Drums		31#						
2	Length(M)/Drum		6000(+5)						
3	Overall Diameter	Nom.: 6.75mm Min.: 6.65mm Max.: 6.85mm	6.75						
4	DC Resistance (Max.)	3.0626Ω/km	2.868						
5	Lay Ratio	16-26	20.14						
6	Lay Direction	Left	Left						
7	Surface	free from any joints /welding's with smooth surface finish	ok						
8	Single Wire Diameter	Nom.: 2.25mm Min.: 2.21mm Max.: 2.29mm	2.24	2.25	2.25	2.25	2.25	2.25	2.25
9	Max. Resistivity at 20°C	84.8Ω mm ² / Km	0.07874	0.0785	0.07823	0.07858	0.07925	0.07952	0.07893
10	Thickness of Aluminum (mm)	10% of Nominal Wire Radius (Min. 0.113mm)	0.117	0.114	0.116	0.115	0.119	0.12	0.118
11	Breaking Load (KN)	Min.: 1340Mpa	1407	1353	1401	1402	1382	1403	1424
12	% Elongation on 250 mm G.L	Min.1.5(at fracture)/Min.1.0(after fracture)	2.21/1.2	2.25/1	2.26/1	2.18/1.2	2.20/1.2	2.35/1.2	1.96/1
13	Torsion Test(100xD)	Min.20	46	47	44	45	48	46	49
14	Stress at 1% Extension (KN)	Min.: 1200Mpa	1219						

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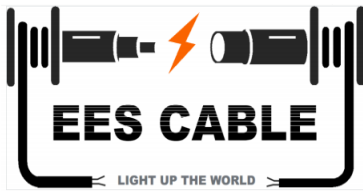
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Test Certificate (ACS strand wire 7/2.25mm, 20.3% IACS)

	Description	Technical Particulars(after strand)	Test Data						
1	Numbers of Drums		38						
2	Length(M)/Drum		6000(+5)						
3	Overall Diameter	Nom.: 6.75mm Min.: 6.65mm Max.: 6.85mm	6.75						
4	DC Resistance (Max.)	3.0626Ω/km	2.848						
5	Lay Ratio	16-26	19.55						
6	Lay Direction	Left	Left						
7	Surface	free from any joints /welding's with smooth surface finish	ok						
8	Single Wire Diameter	Nom.: 2.25mm Min.: 2.21mm Max.: 2.29mm	2.25	2.24	2.24	2.25	2.25	2.26	2.26
9	Max. Resistivity at 20°C	84.8Ω mm ² / Km	0.07846	0.07881	0.07858	0.07897	0.07846	0.07632	0.07825
10	Thickness of Aluminum (mm)	10% of Nominal Wire Radius (Min. 0.113mm)	0.115	0.12	0.117	0.117	0.119	0.121	0.12
11	Breaking Laod (KN)	Min.: 1340Mpa	1424	1437	1429	1428	1417	1454	1459
12	% Elongation on 250 mm G.L	Min.1.5(at fracture)/Min.1.0(after fracture)	1.98/1	1.96/1	2.22/1.2	2.13/1.2	1.82/1	1.93/1	2.25/1.2
13	Torsion Test(100xD)	Min.20	50	49	47	50	46	47	52
14	Stress at 1% Extension (KN)	Min.: 1200Mpa	1270						

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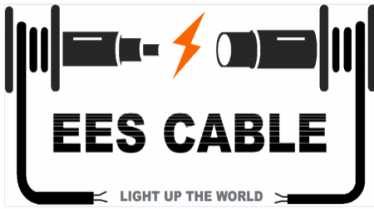
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Test Certificate (ACS strand wire 7/2.25mm, 20.3% IACS)

No.	Description	Technical Particulars(after strand)	Test Data							
1	Numbers of Drums		42							
2	Length(M)/Drum		6000(+5)							
3	Overall Diameter	Nom.: 6.75mm Min.: 6.65mm Max.: 6.85mm	6.76							
4	DC Resistance (Max.)	3.0626Ω/km	2.918							
5	Lay Ratio	16-26	19.82							
6	Lay Direction	Left	Left							
7	Surface	free from any joints /welding's with smooth surface finish	ok							
8	Single Wire Diameter	Nom.: 2.25mm Min.: 2.21mm Max.: 2.29mm	2.25	2.25	2.25	2.25	2.25	2.25	2.25	
9	Max. Resistivity at 20°C	84.8Ω mm ² / Km	0.08088	0.08053	0.07948	0.07994	0.0801	0.08034	0.08061	
10	Thickness of Aluminum (mm)	10% of Nominal Wire Radius (Min. 0.113mm)	0.115	0.115	0.117	0.121	0.116	0.119	0.117	
11	Breaking Laod (KN)	Min.: 1340Mpa	1363	1424	1391	1436	1410	1374	1399	
12	% Elongation on 250 mm G.L	Min.1.5(at fracture)/Min.1.0(after fracture)	1.93/1	2.32/1.2	1.90/1	2.25/1.2	2.23/1.2	1.98/1	1.96/1	
13	Torsion Test(100xD)	Min.20	50	49	54	56	55	50	49	
14	Stress at 1% Extension (KN)	Min.: 1200Mpa	1227							

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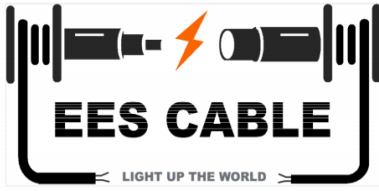
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Test Certificate (ACS strand wire 7/2.25mm, 20.3% IACS)

No.	Description	Technical Particulars(after strand)	Test Data						
1	Numbers of Drums		46						
2	Length(M)/Drum		6000(+5)						
3	Overall Diameter	Nom.: 6.75mm Min.: 6.65mm Max.: 6.85mm	6.75						
4	DC Resistance (Max.)	3.0626Ω/km	2.856						
5	Lay Ratio	16-26	19.4						
6	Lay Direction	Left	Left						
7	Surface	free from any joints /welding's with smooth surface finish	ok						
8	Single Wire Diameter	Nom.: 2.25mm Min.: 2.21mm Max.: 2.29mm	2.24	2.25	2.25	2.25	2.25	2.25	2.25
9	Max. Resistivity at 20°C	84.8Ω mm ² / Km	0.07918	0.07917	0.07878	0.07897	0.07909	0.07886	0.07884
10	Thickness of Aluminum (mm)	10% of Nominal Wire Radius (Min. 0.113mm)	0.117	0.118	0.117	0.119	116	0.117	0.118
11	Breaking Load (KN)	Min.: 1340Mpa	1369	1402	1431	1387	1373	1416	1436
12	% Elongation on 250 mm G.L	Min.1.5(at fracture)/Min.1.0(after fracture)	2.28/1.2	2.23/1.2	1.89/1	2.18/1.2	2.22/1.2	1.86/1	1.92/1
13	Torsion Test(100xD)	Min.20	45	43	40	47	48	44	45
14	Stress at 1% Extension (KN)	Min.: 1200Mpa	1221						

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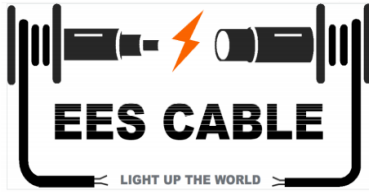
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Test Certificate (ACS strand wire 7/2.25mm, 20.3% IACS)

	Description	Technical Particulars(after strand)	Test Data						
1	Numbers of Drums		54						
2	Length(M)/Drum		6000(+5)						
3	Overall Diameter	Nom.: 6.75mm Min.: 6.65mm Max.: 6.85mm	6.75						
4	DC Resistance (Max.)	3.0626Ω/km	2.913						
5	Lay Ratio	16-26	19.55						
6	Lay Direction	Left	Left						
7	Surface	free from any joints /welding's with smooth surface finish	ok						
8	Single Wire Diameter	Nom.: 2.25mm Min.: 2.21mm Max.: 2.29mm	2.25	2.25	2.25	2.25	2.25	2.25	2.25
9	Max. Resistivity at 20°C	84.8Ω mm ² / Km	0.08074	0.08105	0.07976	0.08003	0.07991	0.08039	0.08015
10	Thickness of Aluminum (mm)	10% of Nominal Wire Radius (Min. 0.113mm)	0.117	0.116	0.118	0.117	0.119	0.118	0.117
11	Breaking Load (KN)	Min.: 1340Mpa	1447	1396	1389	1394	1397	1442	1389
12	% Elongation on 250 mm G.L	Min.1.5(at fracture)/Min.1.0(after fracture)	2.23/1	2.50/1.2	2.33/1.2	2.63/1.2	1.97/1	2.58/1.2	2.56/1.2
13	Torsion Test(100xD)	Min.20	49	47	49	45	48	47	49
14	Stress at 1% Extension (KN)	Min.: 1200Mpa	1253						

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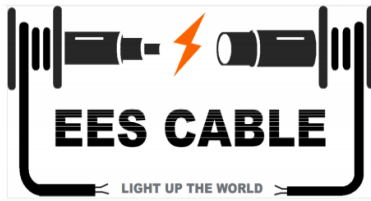
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Test Certificate (ACS strand wire 7/2.25mm, 20.3% IACS)

	Description	Technical Particulars(after strand)	Test Data						
1	Numbers of Drums		59						
2	Length(M)/Drum		6000(+5)						
3	Overall Diameter	Nom.: 6.75mm Min.: 6.65mm Max.: 6.85mm	6.76						
4	DC Resistance (Max.)	3.0626Ω/km	2.895						
5	Lay Ratio	16-26	20.11						
6	Lay Direction	Left	Left						
7	Surface	free from any joints /welding's with smooth surface finish	ok						
8	Single Wire Diameter	Nom.: 2.25mm Min.: 2.21mm Max.: 2.29mm	2.25	2.25	2.26	2.26	2.26	2.26	2.26
9	Max. Resistivity at 20°C	84.8Ω mm ² / Km	0.07925	0.07976	0.08026	0.07995	0.07983	0.08006	0.08002
10	Thickness of Aluminum (mm)	10% of Nominal Wire Radius (Min. 0.113mm)	0.12	0.119	0.115	0.117	0.116	0.121	0.117
11	Breaking Load (KN)	Min.: 1340Mpa	1443	1373	1375	1370	1396	1355	1340
12	% Elongation on 250 mm G.L	Min.1.5(at fracture)/Min.1.0(after fracture)	1.90/1	2.25/1.2	2.38/1.2	1.84/1	2.16/1.2	2.35/1.2	2.54/1.2
13	Torsion Test(100xD)	Min.20	49	54	54	49	57	46	57
14	Stress at 1% Extension (KN)	Min.: 1200Mpa	1292						

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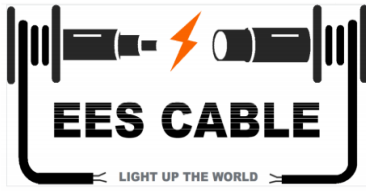
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Test Certificate (ACS strand wire 7/2.25mm, 20.3% IACS)

	Description	Technical Particulars(after strand)	Test Data						
1	Numbers of Drums		62						
2	Length(M)/Drum		6000(+5)						
3	Overall Diameter	Nom.: 6.75mm Min.: 6.65mm Max.: 6.85mm	6.74						
4	DC Resistance (Max.)	3.0626Ω/km	2.886						
5	Lay Ratio	16-26	19.88						
6	Lay Direction	Left	Left						
7	Surface	free from any joints /welding's with smooth surface finish	ok						
8	Single Wire Diameter	Nom.: 2.25mm Min.: 2.21mm Max.: 2.29mm	2.25	2.25	2.25	2.25	2.25	2.25	2.25
9	Max. Resistivity at 20°C	84.8Ω mm ² / Km	0.0801	0.07983	0.08002	0.07955	0.07944	0.07963	0.07955
10	Thickness of Aluminum (mm)	10% of Nominal Wire Radius (Min. 0.113mm)	0.12	0.117	0.119	0.119	0.117	0.115	0.123
11	Breaking Load (KN)	Min.: 1340Mpa	1421	1377	1433	1414	1405	1428	1438
12	% Elongation on 250 mm G.L	Min.1.5(at fracture)/Min.1.0(after fracture)	2.10/1	2.24/1.2	2.11/1	2.18/1	2.63/1.2	2.51/1.2	2.08/1
13	Torsion Test(100xD)	Min.20	44	50	47	56	42	47	50
14	Stress at 1% Extension (KN)	Min.: 1200Mpa	1287						

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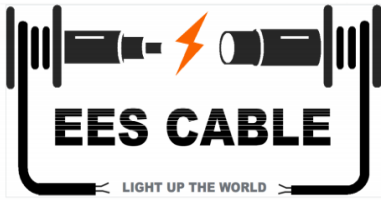
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Test Certificate (ACS strand wire 7/2.25mm, 20.3% IACS)

No.	Description	Technical Particulars(after strand)	Test Data							
1	Numbers of Drums		66							
2	Length(M)/Drum		6000(+5)							
3	Overall Diameter	Nom.: 6.75mm Min.: 6.65mm Max.: 6.85mm	6.77							
4	DC Resistance (Max.)	3.0626Ω/km	2.919							
5	Lay Ratio	16-26	19.94							
6	Lay Direction	Left	Left							
7	Surface	free from any joints /welding's with smooth surface finish	ok							
8	Single Wire Diameter	Nom.: 2.25mm Min.: 2.21mm Max.: 2.29mm	2.26	2.26	2.26	2.26	2.26	2.26	2.26	
9	Max. Resistivity at 20°C	84.8Ω mm ² / Km	0.08092	0.08039	0.08074	0.08063	0.08015	0.07983	0.08003	
10	Thickness of Aluminum (mm)	10% of Nominal Wire Radius (Min. 0.113mm)	0.122	0.117	0.121	0.125	0.119	0.117	0.114	
11	Breaking Load (KN)	Min.: 1340Mpa	1388	1398	1380	1420	1433	1449	1420	
12	% Elongation on 250 mm G.L	Min.1.5(at fracture)/Min.1.0(after fracture)	1.82/1	1.96/1.2	2.25/1.2	1.92/1	1.96/1.2	1.88/1	1.96/1	
13	Torsion Test(100xD)	Min.20	47	54	49	52	50	54	55	
14	Stress at 1% Extension (KN)	Min.: 1200Mpa	1257							

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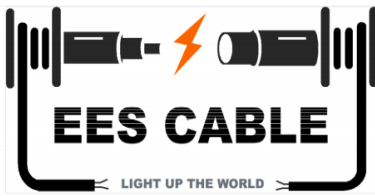
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Test Certificate (ACS strand wire 7/2.25mm, 20.3% IACS)

	Description	Technical Particulars(after strand)	Test Data						
1	Numbers of Drums		71						
2	Length(M)/Drum		6000(+5)						
3	Overall Diameter	Nom.: 6.75mm Min.: 6.65mm Max.: 6.85mm	6.78						
4	DC Resistance (Max.)	3.0626Ω/km	2.949						
5	Lay Ratio	16-26	19.76						
6	Lay Direction	Left	Left						
7	Surface	free from any joints /welding's with smooth surface finish	ok						
8	Single Wire Diameter	Nom.: 2.25mm Min.: 2.21mm Max.: 2.29mm	2.26	2.25	2.25	2.25	2.25	2.25	2.25
9	Max. Resistivity at 20°C	84.8Ω mm ² / Km	0.08176	0.08039	0.08023	0.08019	0.0796	0.07882	0.07933
10	Thickness of Aluminum (mm)	10% of Nominal Wire Radius (Min. 0.113mm)	0.119	0.115	0.114	0.117	0.114	0.12	0.119
11	Breaking Laod (KN)	Min.: 1340Mpa	1419	1436	1419	1445	1450	1369	1387
12	% Elongation on 250 mm G.L	Min.1.5(at fracture)/Min.1.0(after fracture)	1.82/1	1.98/1	1.95/1	2.37/1.2	1.90/1	2.42/1.2	2.02/1.2
13	Torsion Test(100xD)	Min.20	47	50	57	45	52	49	55
14	Stress at 1% Extension (KN)	Min.: 1200Mpa	1312						

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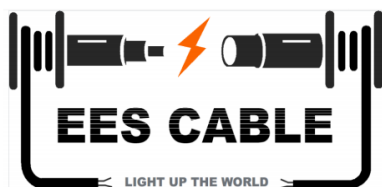
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Test Certificate (ACS strand wire 7/2.25mm, 20.3% IACS)

No.	Description	Technical Particulars(after strand)	Test Data						
1	Numbers of Drums		75						
2	Length(M)/Drum		6000(+5)						
3	Overall Diameter	Nom.: 6.75mm Min.: 6.65mm Max.: 6.85mm	6.74						
4	DC Resistance (Max.)	3.0626Ω/km	2.862						
5	Lay Ratio	16-26	20						
6	Lay Direction	Left	Left						
7	Surface	free from any joints /welding's with smooth surface finish	ok						
8	Single Wire Diameter	Nom.: 2.25mm Min.: 2.21mm Max.: 2.29mm	2.25	2.25	2.25	2.25	2.25	2.25	2.25
9	Max. Resistivity at 20°C	84.8Ω mm ² / Km	0.07914	0.07874	0.07906	0.07933	0.0791	0.07918	0.07902
10	Thickness of Aluminum (mm)	10% of Nominal Wire Radius (Min. 0.113mm)	0.116	0.118	0.119	0.117	0.12	0.118	0.117
11	Breaking Load (KN)	Min.: 1340Mpa	1433	1450	1415	1449	1392	1418	1430
12	% Elongation on 250 mm G.L	Min.1.5(at fracture)/Min.1.0(after fracture)	2.36/1.2	2.20/1	2.28/1.2	2.29/1.2	1.98/1	2.36/1.2	2.28/1.2
13	Torsion Test(100xD)	Min.20	45	43	46	42	44	43	41
14	Stress at 1% Extension (KN)	Min.: 1200Mpa	1271						

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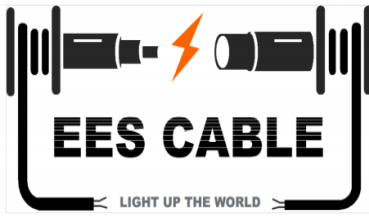
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Test Certificate (ACS strand wire 7/2.25mm, 20.3% IACS)

	Description	Technical Particulars(after strand)	Test Data						
1	Numbers of Drums		81						
2	Length(M)/Drum		6000(+5)						
3	Overall Diameter	Nom.: 6.75mm Min.: 6.65mm Max.: 6.85mm	6.78						
4	DC Resistance (Max.)	3.0626Ω/km	2.886						
5	Lay Ratio	16-26	19.76						
6	Lay Direction	Left	Left						
7	Surface	free from any joints /welding's with smooth surface finish	ok						
8	Single Wire Diameter	Nom.: 2.25mm Min.: 2.21mm Max.: 2.29mm	2.25	2.25	2.25	2.25	2.25	2.26	2.26
9	Max. Resistivity at 20°C	84.8Ω mm ² / Km	0.07922	0.07961	0.07977	0.08001	0.07899	0.07952	0.07984
10	Thickness of Aluminum (mm)	10% of Nominal Wire Radius (Min. 0.113mm)	0.115	0.117	0.119	0.121	0.119	0.117	0.119
11	Breaking Laod (KN)	Min.: 1340Mpa	1433	1441	1438	1414	1391	1390	1362
12	% Elongation on 250 mm G.L	Min.1.5(at fracture)/Min.1.0(after fracture)	1.80/1	1.85/1	1.96/1	2.33/1.2	2.39/1.2	1.86/1	2.28/1.2
13	Torsion Test(100xD)	Min.20	45	49	51	57	46	57	59
14	Stress at 1% Extension (KN)	Min.: 1200Mpa	1315						

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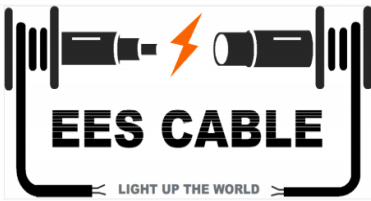
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Test Certificate (ACS strand wire 7/2.25mm, 20.3% IACS)

	Description	Technical Particulars(after strand)	Test Data						
1	Numbers of Drums		86						
2	Length(M)/Drum		6000(+5)						
3	Overall Diameter	Nom.: 6.75mm Min.: 6.65mm Max.: 6.85mm	6.76						
4	DC Resistance (Max.)	3.0626Ω/km	2.899						
5	Lay Ratio	16-26	19.52						
6	Lay Direction	Left	Left						
7	Surface	free from any joints /welding's with smooth surface finish	ok						
8	Single Wire Diameter	Nom.: 2.25mm Min.: 2.21mm Max.: 2.29mm	2.26	2.25	2.26	2.26	2.26	2.26	2.26
9	Max. Resistivity at 20°C	84.8Ω mm ² / Km	0.07998	0.07975	0.08013	0.07998	0.08005	0.08037	0.08025
10	Thickness of Aluminum (mm)	10% of Nominal Wire Radius (Min. 0.113mm)	0.115	0.117	0.119	0.118	0.12	0.119	0.117
11	Breaking Load (KN)	Min.: 1340Mpa	1422	1382	1404	1361	1413	1442	1426
12	% Elongation on 250 mm G.L	Min.1.5(at fracture)/Min.1.0(after fracture)	2.21/1	2.39/1.2	2.35/1.2	2.42/1.2	2.06/1	1.95/1	2.25/1.2
13	Torsion Test(100xD)	Min.20	50	47	44	59	54	51	57
14	Stress at 1% Extension (KN)	Min.: 1200Mpa	1291						

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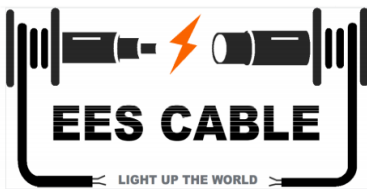
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Test Certificate (ACS strand wire 7/2.25mm, 20.3% IACS)

	Description	Technical Particulars(after strand)	Test Data						
1	Numbers of Drums		91						
2	Length(M)/Drum		6000(+5)						
3	Overall Diameter	Nom.: 6.75mm Min.: 6.65mm Max.: 6.85mm	6.77						
4	DC Resistance (Max.)	3.0626Ω/km	2.858						
5	Lay Ratio	16-26	19.55						
6	Lay Direction	Left	Left						
7	Surface	free from any joints /welding's with smooth surface finish	ok						
8	Single Wire Diameter	Nom.: 2.25mm Min.: 2.21mm Max.: 2.29mm	2.25	2.25	2.25	2.26	2.26	2.26	2.26
9	Max. Resistivity at 20°C	84.8Ω mm ² / Km	0.07894	0.07922	0.07916	0.07898	0.07914	0.07918	0.07902
10	Thickness of Aluminum (mm)	10% of Nominal Wire Radius (Min. 0.113mm)	0.118	0.115	0.118	0.119	0.117	0.12	0.117
11	Breaking Load (KN)	Min.: 1340Mpa	1446	1420	1347	1354	1383	1360	1365
12	% Elongation on 250 mm G.L	Min.1.5(at fracture)/Min.1.0(after fracture)	2.06/1	2.18/1	2.20/1.2	2.16/1.2	1.98/1	1.96/1.2	1.96/1
13	Torsion Test(100xD)	Min.20	43	44	49	45	47	48	46
14	Stress at 1% Extension (KN)	Min.: 1200Mpa	1290						

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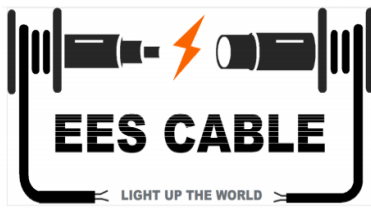
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Test Certificate (ACS strand wire 7/2.25mm, 20.3% IACS)

	Description	Technical Particulars(after strand)	Test Data						
1	Numbers of Drums		98						
2	Length(M)/Drum		6000(+5)						
3	Overall Diameter	Nom.: 6.75mm Min.: 6.65mm Max.: 6.85mm	6.76						
4	DC Resistance (Max.)	3.0626Ω/km	2.906						
5	Lay Ratio	16-26	19.67						
6	Lay Direction	Left	Left						
7	Surface	free from any joints /welding's with smooth surface finish	ok						
8	Single Wire Diameter	Nom.: 2.25mm Min.: 2.21mm Max.: 2.29mm	2.26	2.24	2.24	2.25	2.25	2.25	2.25
9	Max. Resistivity at 20°C	84.8Ω mm ² / Km	0.08058	0.08045	0.08008	0.08007	0.07999	0.07997	0.08004
10	Thickness of Aluminum (mm)	10% of Nominal Wire Radius (Min. 0.113mm)	0.115	0.117	0.119	0.12	0.117	0.115	0.117
11	Breaking Load (KN)	Min.: 1340Mpa	1356	1382	1386	1410	1367	1403	1384
12	% Elongation on 250 mm G.L	Min.1.5(at fracture)/Min.1.0(after fracture)	2.23/1.2	2.25/1.2	2.29/1.2	2.28/1.2	2.39/1.4	2.33/1.2	2.35/1.2
13	Torsion Test(100xD)	Min.20	52	50	46	47	51	47	49
14	Stress at 1% Extension (KN)	Min.: 1200Mpa	1254						

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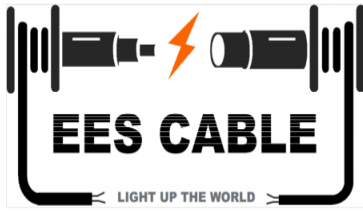
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Test Certificate (ACS strand wire 7/2.25mm, 20.3% IACS)

	Description	Technical Particulars(after strand)	Test Data						
1	Numbers of Drums		103						
2	Length(M)/Drum		6000(+5)						
3	Overall Diameter	Nom.: 6.75mm Min.: 6.65mm Max.: 6.85mm	6.77						
4	DC Resistance (Max.)	3.0626Ω/km	2.898						
5	Lay Ratio	16-26	19.64						
6	Lay Direction	Left	Left						
7	Surface	free from any joints /welding's with smooth surface finish	ok						
8	Single Wire Diameter	Nom.: 2.25mm Min.: 2.21mm Max.: 2.29mm	2.24	2.24	2.24	2.24	2.24	2.25	2.25
9	Max. Resistivity at 20°C	84.8Ω mm ² / Km	0.07957	0.08008	0.08035	0.07992	0.07981	0.08012	0.07988
10	Thickness of Aluminum (mm)	10% of Nominal Wire Radius (Min. 0.113mm)	0.117	0.115	0.116	0.117	0.119	0.12	0.119
11	Breaking Load (KN)	Min.: 1340Mpa	1408	1403	1409	1402	1369	1416	1406
12	% Elongation on 250 mm G.L	Min.1.5(at fracture)/Min.1.0(after fracture)	2.52/1.2	2.12/1	2.48/1.2	2.26/1.2	2.30/1.2	2.68/1.4	2.56/1.2
13	Torsion Test(100xD)	Min.20	49	50	47	54	46	55	53
14	Stress at 1% Extension (KN)	Min.: 1200Mpa	1271						

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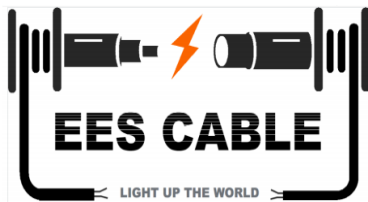
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Test Certificate (ACS strand wire 7/2.25mm, 20.3% IACS)

No.	Description	Technical Particulars(after strand)	Test Data						
1	Numbers of Drums		108						
2	Length(M)/Drum		6000(+5)						
3	Overall Diameter	Nom.: 6.75mm Min.: 6.65mm Max.: 6.85mm	6.75						
4	DC Resistance (Max.)	3.0626Ω/km	2.893						
5	Lay Ratio	16-26	19.55						
6	Lay Direction	Left	Left						
7	Surface	free from any joints /welding's with smooth surface finish	ok						
8	Single Wire Diameter	Nom.: 2.25mm Min.: 2.21mm Max.: 2.29mm	2.24	2.24	2.24	2.24	2.25	2.25	2.25
9	Max. Resistivity at 20°C	84.8Ω mm ² / Km	0.0788	0.07946	0.07996	0.0802	0.0802	0.08001	0.08016
10	Thickness of Aluminum (mm)	10% of Nominal Wire Radius (Min. 0.113mm)	0.119	0.115	0.117	0.12	0.119	0.119	0.115
11	Breaking Load (KN)	Min.: 1340Mpa	1403	1422	1418	1438	1390	1349	1410
12	% Elongation on 250 mm G.L	Min.1.5(at fracture)/Min.1.0(after fracture)	2.42/1.2	1.88/1	2.39/1.2	2.36/1.2	2.52/1.2	2.58/1.4	2.28/1.2
13	Torsion Test(100xD)	Min.20	50	49	56	54	57	55	49
14	Stress at 1% Extension (KN)	Min.: 1200Mpa	1257						

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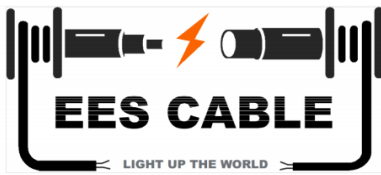
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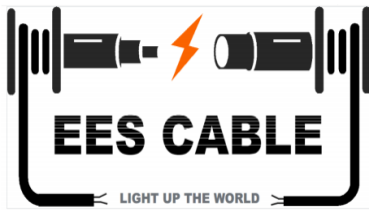
No.	Description	Technical Particulars(after strand)	Test Data						
1	Numbers of Drums		115						
2	Length(M)/Drum		6000(+5)						
3	Overall Diameter	Nom.: 6.75mm Min.: 6.65mm Max.: 6.85mm	6.75						
4	DC Resistance (Max.)	3.0626Ω/km	2.928						
5	Lay Ratio	16-26	19.05						
6	Lay Direction	Left	Left						
7	Surface	free from any joints /welding's with smooth surface finish	ok						
8	Single Wire Diameter	Nom.: 2.25mm Min.: 2.21mm Max.: 2.29mm	2.25	2.25	2.25	2.26	2.25	2.25	2.25
9	Max. Resistivity at 20°C	84.8Ω mm ² / Km	0.07986	0.07988	0.08105	0.08116	0.08029	0.08009	0.08115
10	Thickness of Aluminum (mm)	10% of Nominal Wire Radius (Min. 0.113mm)	0.118	0.116	0.117	0.12	0.12	0.119	0.116
11	Breaking Load (KN)	Min.: 1340Mpa	1398	1372	1392	1386	1378	1382	1410
12	% Elongation on 250 mm G.L	Min.1.5(at fracture)/Min.1.0(after fracture)	2.62/1.2	2.58/1.2	2.49/1.2	2.23/1	2.35/1.2	2.48/1.4	2.31/1.2
13	Torsion Test(100xD)	Min.20	47	43	46	42	51	48	49
14	Stress at 1% Extension (KN)	Min.: 1200Mpa	1248						

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Test Certificate (ACS strand wire 7/2.25mm, 20.3% IACS)

No.	Description	Technical Particulars(after strand)	Test Data						
1	Numbers of Drums		117						
2	Length(M)/Drum		6000(+5)						
3	Overall Diameter	Nom.: 6.75mm Min.: 6.65mm Max.: 6.85mm	6.75						
4	DC Resistance (Max.)	3.0626Ω/km	2.926						
5	Lay Ratio	16-26	19.32						
6	Lay Direction	Left	Left						
7	Surface	free from any joints /welding's with smooth surface finish	ok						
8	Single Wire Diameter	Nom.: 2.25mm Min.: 2.21mm Max.: 2.29mm	2.25	2.25	2.25	2.26	2.25	2.25	2.25
9	Max. Resistivity at 20°C	84.8Ω mm ² / Km	0.07996	0.07985	0.08113	0.08076	0.08012	0.07982	0.07988
10	Thickness of Aluminum (mm)	10% of Nominal Wire Radius (Min. 0.113mm)	0.118	0.116	0.117	0.118	0.12	0.121	0.122
11	Breaking Load (KN)	Min.: 1340Mpa	1385	1395	1401	1382	1389	1379	1382
12	% Elongation on 250 mm G.L	Min.1.5(at fracture)/Min.1.0(after fracture)	2.36/1.2	2.21/1	2.39/1.2	2.15/1	2.28/1.2	2.39/1.2	2.35/1.2
13	Torsion Test(100xD)	Min.20	45	43	48	42	42	40	47
14	Stress at 1% Extension (KN)	Min.: 1200Mpa	1248						



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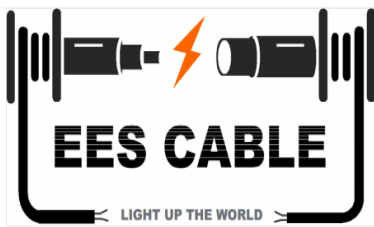
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Test Certificate (ACS strand wire 7/2.25mm, 20.3% IACS)

	Description	Technical Particulars(after strand)	Test Data						
1	Numbers of Drums		122						
2	Length(M)/Drum		6000(+5)						
3	Overall Diameter	Nom.: 6.75mm Min.: 6.65mm Max.: 6.85mm	6.75						
4	DC Resistance (Max.)	3.0626Ω/km	2.907						
5	Lay Ratio	16-26	19.67						
6	Lay Direction	Left	Left						
7	Surface	free from any joints /welding's with smooth surface finish	ok						
8	Single Wire Diameter	Nom.: 2.25mm Min.: 2.21mm Max.: 2.29mm	2.25	2.25	2.25	2.26	2.25	2.25	2.25
9	Max. Resistivity at 20°C	84.8Ω mm ² / Km	0.08058	0.08015	0.07996	0.08004	0.07963	0.07978	0.07982
10	Thickness of Aluminum (mm)	10% of Nominal Wire Radius (Min. 0.113mm)	0.12	0.119	0.118	0.116	0.121	0.115	0.121
11	Breaking Load (KN)	Min.: 1340Mpa	1365	1382	1368	1386	1379	1403	1384
12	% Elongation on 250 mm G.L	Min.1.5(at fracture)/Min.1.0(after fracture)	2.48/1.2	1.89/1	2.68/1.4	1.82/1	2.52/1.4	1.93/1	2.24/1.2
13	Torsion Test(100xD)	Min.20	52	50	54	49	47	50	47
14	Stress at 1% Extension (KN)	Min.: 1200Mpa	1242						

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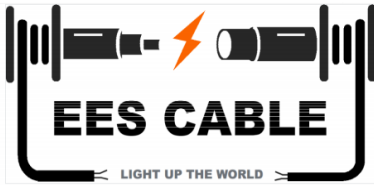
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Test Certificate (ACS strand wire 7/2.25mm, 20.3% IACS)

No.	Description	Technical Particulars(after strand)	Test Data						
1	Numbers of Drums		126						
2	Length(M)/Drum		6000(+5)						
3	Overall Diameter	Nom.: 6.75mm Min.: 6.65mm Max.: 6.85mm	6.75						
4	DC Resistance (Max.)	3.0626Ω/km	2.977						
5	Lay Ratio	16-26	19.38						
6	Lay Direction	Left	Left						
7	Surface	free from any joints /welding's with smooth surface finish	ok						
8	Single Wire Diameter	Nom.: 2.25mm Min.: 2.21mm Max.: 2.29mm	2.25	2.25	2.25	2.25	2.25	2.25	2.25
9	Max. Resistivity at 20°C	84.8Ω mm ² / Km	0.08059	0.08254	0.08188	0.07937	0.08026	0.0812	0.08021
10	Thickness of Aluminum (mm)	10% of Nominal Wire Radius (Min. 0.113mm)	0.121	0.121	0.116	0.115	0.118	0.121	0.116
11	Breaking Load (KN)	Min.: 1340Mpa	1399	1393	1418	1381	1392	1383	1385
12	% Elongation on 250 mm G.L	Min.1.5(at fracture)/Min.1.0(after fracture)	2.42/1.2	2.40/1.2	2.33/1.2	2.31/1	2.29/1	2.26/1	2.48/1.2
13	Torsion Test(100xD)	Min.20	45	48	56	48	46	52	49
14	Stress at 1% Extension (KN)	Min.: 1200Mpa	1238						

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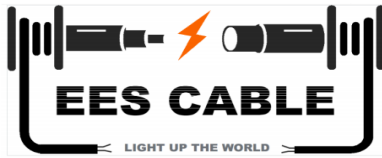
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Test Certificate (ACS strand wire 7/2.25mm, 20.3% IACS)

No.	Description	Technical Particulars(after strand)	Test Data							
1	Numbers of Drums		135							
2	Length(M)/Drum		6000(+5)							
3	Overall Diameter	Nom.: 6.75mm Min.: 6.65mm Max.: 6.85mm	6.75							
4	DC Resistance (Max.)	3.0626Ω/km	2.968							
5	Lay Ratio	16-26	19.26							
6	Lay Direction	Left	Left							
7	Surface	free from any joints /welding's with smooth surface finish	ok							
8	Single Wire Diameter	Nom.: 2.25mm Min.: 2.21mm Max.: 2.29mm	2.25	2.25	2.25	2.24	2.24	2.24	2.25	
9	Max. Resistivity at 20°C	84.8Ω mm ² / Km	0.07984	0.08234	0.08006	0.08116	0.07936	0.07984	0.08227	
10	Thickness of Aluminum (mm)	10% of Nominal Wire Radius (Min. 0.113mm)	0.122	0.118	0.119	0.119	0.116	0.118	0.119	
11	Breaking Load (KN)	Min.: 1340Mpa	1389	1415	1400	1384	1369	1416	1373	
12	% Elongation on 250 mm G.L	Min.1.5(at fracture)/Min.1.0(after fracture)	1.89/1	1.82/1	1.98/1.2	2.21/1.2	2.03/1.2	2.01/1	2.26/1.2	
13	Torsion Test(100xD)	Min.20	52	49	46	48	47	50	45	
14	Stress at 1% Extension (KN)	Min.: 1200Mpa	1286							

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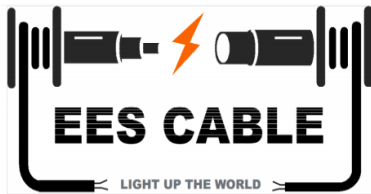
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Test Certificate (ACS strand wire 7/2.25mm, 20.3% IACS)

	Description	Technical Particulars(after strand)	Test Data						
1	Numbers of Drums		137						
2	Length(M)/Drum		6000(+5)						
3	Overall Diameter	Nom.: 6.75mm Min.: 6.65mm Max.: 6.85mm	6.75						
4	DC Resistance (Max.)	3.0626Ω/km	2.956						
5	Lay Ratio	16-26	19.26						
6	Lay Direction	Left	Left						
7	Surface	free from any joints /welding's with smooth surface finish	ok						
8	Single Wire Diameter	Nom.: 2.25mm Min.: 2.21mm Max.: 2.29mm	2.25	2.25	2.25	2.24	2.24	2.24	2.25
9	Max. Resistivity at 20°C	84.8Ω mm ² / Km	0.08159	0.07987	0.08193	0.08091	0.0818	0.08037	0.07963
10	Thickness of Aluminum (mm)	10% of Nominal Wire Radius (Min. 0.113mm)	0.116	0.117	0.117	0.117	0.116	0.117	0.122
11	Breaking Load (KN)	Min.: 1340Mpa	1400	1382	1402	1398	1399	1388	1378
12	% Elongation on 250 mm G.L	Min.1.5(at fracture)/Min.1.0(after fracture)	2.45/1.2	2.38/1.2	2.36/1.2	2.52/1.2	2.42/1.2	2.39/1.2	2.38/1.2
13	Torsion Test(100xD)	Min.20	50	45	48	45	42	42	48
14	Stress at 1% Extension (KN)	Min.: 1200Mpa	1275						

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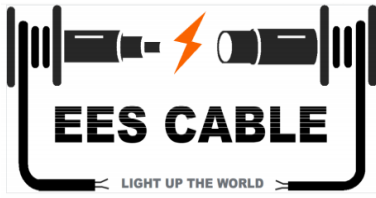
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Test Certificate (ACS strand wire 7/2.25mm, 20.3% IACS)

No.	Description	Technical Particulars(after strand)	Test Data						
1	Numbers of Drums		145						
2	Length(M)/Drum		6000(+5)						
3	Overall Diameter	Nom.: 6.75mm Min.: 6.65mm Max.: 6.85mm	6.75						
4	DC Resistance (Max.)	3.0626Ω/km	2.975						
5	Lay Ratio	16-26	19.2						
6	Lay Direction	Left	Left						
7	Surface	free from any joints /welding's with smooth surface finish	ok						
8	Single Wire Diameter	Nom.: 2.25mm Min.: 2.21mm Max.: 2.29mm	2.25	2.25	2.25	2.24	2.24	2.24	2.25
9	Max. Resistivity at 20°C	84.8Ω mm ² / Km	0.07926	0.07983	0.08247	0.07996	0.07903	0.07997	0.08137
10	Thickness of Aluminum (mm)	10% of Nominal Wire Radius (Min. 0.113mm)	0.12	0.115	0.122	0.116	0.118	0.116	0.121
11	Breaking Load (KN)	Min.: 1340Mpa	1373	1415	1381	1416	1395	1391	1406
12	% Elongation on 250 mm G.L	Min.1.5(at fracture)/Min.1.0(after fracture)	2.53/1.2	2.46/1.2	2.50/1.2	2.25/1	2.38/1.2	2.21/1	2.18/1
13	Torsion Test(100xD)	Min.20	42	47	49	48	43	45	47
14	Stress at 1% Extension (KN)	Min.: 1200Mpa	1253						

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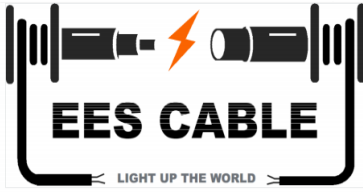
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Test Certificate (ACS strand wire 7/2.25mm, 20.3% IACS)

	Description	Technical Particulars(after strand)	Test Data						
1	Numbers of Drums		149						
2	Length(M)/Drum		6000(+5)						
3	Overall Diameter	Nom.: 6.75mm Min.: 6.65mm Max.: 6.85mm	6.75						
4	DC Resistance (Max.)	3.0626Ω/km	2.943						
5	Lay Ratio	16-26	19.26						
6	Lay Direction	Left	Left						
7	Surface	free from any joints /welding's with smooth surface finish	ok						
8	Single Wire Diameter	Nom.: 2.25mm Min.: 2.21mm Max.: 2.29mm	2.25	2.25	2.24	2.24	2.24	2.25	2.25
9	Max. Resistivity at 20°C	84.8Ω mm ² / Km	0.08078	0.07992	0.08159	0.07911	0.08095	0.08152	0.08096
10	Thickness of Aluminum (mm)	10% of Nominal Wire Radius (Min. 0.113mm)	0.116	0.116	0.119	0.119	0.117	0.119	0.118
11	Breaking Load (KN)	Min.: 1340Mpa	1410	1377	1419	1418	1394	1372	1401
12	% Elongation on 250 mm G.L	Min.1.5(at fracture)/Min.1.0(after fracture)	1.98/1	2.36/1.2	1.92/1	2.32/1.2	2.29/1.2	2.28/1.2	2.02/1
13	Torsion Test(100xD)	Min.20	51	47	48	46	42	44	42
14	Stress at 1% Extension (KN)	Min.: 1200Mpa	1249						

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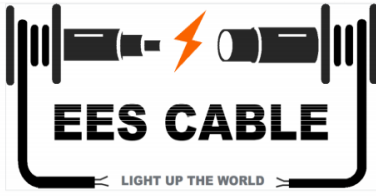
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Test Certificate (ACS strand wire 7/2.25mm, 20.3% IACS)

No.	Description	Technical Particulars(after strand)	Test Data						
1	Numbers of Drums		150						
2	Length(M)/Drum		6000(+5)						
3	Overall Diameter	Nom.: 6.75mm Min.: 6.65mm Max.: 6.85mm	6.77						
4	DC Resistance (Max.)	3.0626Ω/km	2.887						
5	Lay Ratio	16-26	19.94						
6	Lay Direction	Left	Left						
7	Surface	free from any joints /welding's with smooth surface finish	ok						
8	Single Wire Diameter	Nom.: 2.25mm Min.: 2.21mm Max.: 2.29mm	2.26	2.23	2.24	2.25	2.25	2.25	2.25
9	Max. Resistivity at 20°C	84.8Ω mm ² / Km	0.08005	0.08001	0.07951	0.07979	0.07936	0.07904	0.07943
10	Thickness of Aluminum (mm)	10% of Nominal Wire Radius (Min. 0.113mm)	0.117	0.115	0.12	0.117	0.119	0.117	0.115
11	Breaking Load (KN)	Min.: 1340Mpa	1448	1421	1394	1392	1432	1413	1415
12	% Elongation on 250 mm G.L	Min.1.5(at fracture)/Min.1.0(after fracture)	1.86/1	2.36/1.2	1.98/1	1.85/1	2.42/1.2	2.48/1.2	2.36/1.2
13	Torsion Test(100xD)	Min.20	49	50	49	54	57	50	52
14	Stress at 1% Extension (KN)	Min.: 1200Mpa	1327						

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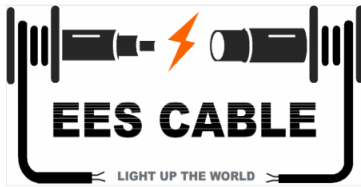
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Test Certificate (ACS strand wire 7/2.25mm, 20.3% IACS)

No.	Description	Technical Particulars(after strand)	Test Data						
1	Numbers of Drums		156						
2	Length(M)/Drum		6000(+5)						
3	Overall Diameter	Nom.: 6.75mm Min.: 6.65mm Max.: 6.85mm	6.77						
4	DC Resistance (Max.)	3.0626Ω/km	2.849						
5	Lay Ratio	16-26	19.94						
6	Lay Direction	Left	Left						
7	Surface	free from any joints /welding's with smooth surface finish	ok						
8	Single Wire Diameter	Nom.: 2.25mm Min.: 2.21mm Max.: 2.29mm	2.25	2.24	2.24	2.25	2.25	2.25	2.25
9	Max. Resistivity at 20°C	84.8Ω mm ² / Km	0.07871	0.07841	0.07868	0.07875	0.07867	0.07899	0.07934
10	Thickness of Aluminum (mm)	10% of Nominal Wire Radius (Min. 0.113mm)	0.117	0.119	0.116	0.119	0.121	0.12	0.127
11	Breaking Load (KN)	Min.: 1340Mpa	1394	1454	1384	1445	1443	1388	1433
12	% Elongation on 250 mm G.L	Min.1.5(at fracture)/Min.1.0(after fracture)	1.92/1	2.01/1	2.52/1.4	2.35/1.2	2.36/1.2	2.48/1.4	2.45/1.2
13	Torsion Test(100xD)	Min.20	49	57	54	50	53	54	49
14	Stress at 1% Extension (KN)	Min.: 1200Mpa	1275						

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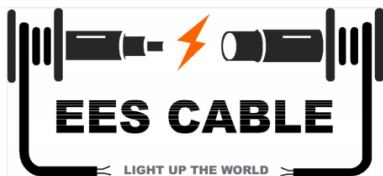
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Test Certificate (ACS strand wire 7/2.25mm, 20.3% IACS)

No.	Description	Technical Particulars(after strand)	Test Data							
1	Numbers of Drums		160							
2	Length(M)/Drum		6000(+5)							
3	Overall Diameter	Nom.: 6.75mm Min.: 6.65mm Max.: 6.85mm	6.75							
4	DC Resistance (Max.)	3.0626Ω/km	2.883							
5	Lay Ratio	16-26	19.63							
6	Lay Direction	Left	Left							
7	Surface	free from any joints /welding's with smooth surface finish	ok							
8	Single Wire Diameter	Nom.: 2.25mm Min.: 2.21mm Max.: 2.29mm	2.25	2.26	2.24	2.25	2.24	2.25	2.24	
9	Max. Resistivity at 20°C	84.8Ω mm ² / Km	0.08016	0.07998	0.07989	0.08007	0.07969	0.08058	0.07989	
10	Thickness of Aluminum (mm)	10% of Nominal Wire Radius (Min. 0.113mm)	0.12	0.117	0.12	0.118	0.118	0.119	0.118	
11	Breaking Load (KN)	Min.: 1340Mpa	1400	1389	1412	1391	1422	1381	1410	
12	% Elongation on 250 mm G.L	Min.1.5(at fracture)/Min.1.0(after fracture)	2.28/1.2	2.22/1.2	2.19/1.2	2.08/1	1.86/1	2.18/1.2	2.06/1	
13	Torsion Test(100xD)	Min.20	48	43	41	48	43	47	45	
14	Stress at 1% Extension (KN)	Min.: 1200Mpa	1257							

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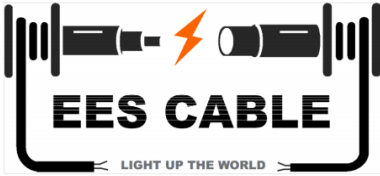
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Test Certificate (ACS strand wire 7/2.25mm, 20.3% IACS)

No.	Description	Technical Particulars(after strand)	Test Data						
1	Numbers of Drums		164						
2	Length(M)/Drum		6000(+5)						
3	Overall Diameter	Nom.: 6.75mm Min.: 6.65mm Max.: 6.85mm	6.74						
4	DC Resistance (Max.)	3.0626Ω/km	2.883						
5	Lay Ratio	16-26	19.4						
6	Lay Direction	Left	Left						
7	Surface	free from any joints /welding's with smooth surface finish	ok						
8	Single Wire Diameter	Nom.: 2.25mm Min.: 2.21mm Max.: 2.29mm	2.24	2.24	2.24	2.24	2.24	2.24	2.24
9	Max. Resistivity at 20°C	84.8Ω mm ² / Km	0.07961	0.07992	0.07957	0.07977	0.07942	0.07965	0.07984
10	Thickness of Aluminum (mm)	10% of Nominal Wire Radius (Min. 0.113mm)	0.119	0.117	0.12	0.116	0.118	0.119	0.118
11	Breaking Load (KN)	Min.: 1340Mpa	1400	1389	1412	1391	1422	1381	1410
12	% Elongation on 250 mm G.L	Min.1.5(at fracture)/Min.1.0(after fracture)	1.80/1	1.89/1	2.27/1.2	1.98/1	2.12/1	2.23/1.2	1.92/1
13	Torsion Test(100xD)	Min.20	50	47	51	48	53	49	47
14	Stress at 1% Extension (KN)	Min.: 1200Mpa	1266						

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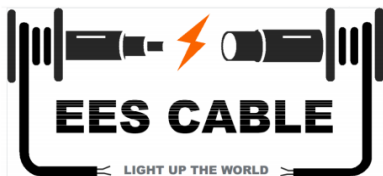
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Test Certificate (ACS strand wire 7/2.25mm, 20.3% IACS)

No.	Description	Technical Particulars(after strand)	Test Data						
1	Numbers of Drums		155/165						
2	Length(M)/Drum		6000(+5)						
3	Overall Diameter	Nom.: 6.75mm Min.: 6.65mm Max.: 6.85mm	6.75						
4	DC Resistance (Max.)	3.0626Ω/km	2.8689						
5	Lay Ratio	16-26	19.70						
6	Lay Direction	Left	Left						
7	Surface	free from any joints /welding's with smooth surface finish	ok						
8	Single Wire Diameter	Nom.: 2.25mm Min.: 2.21mm Max.: 2.29mm	2.27	2.269	2.267	2.261	2.277	2.273	2.253
9	Max. Resistivity at 20°C	84.8Ω mm ² / Km	0.08123	0.08150	0.08109	0.07993	0.07753	0.08292	0.08210
10	Thickness of Aluminum (mm)	10% of Nominal Wire Radius (Min. 0.113mm)	0.138	0.128	0.134	0.127	0.154	0.141	0.129
11	Breaking Load (KN)	Min.: 1340Mpa	1419	1433	1432	1424	1370	1400	1381
12	% Elongation on 250 mm G.L	Min.1.5(at fracture)/Min.1.0(after fracture)	2.25/1.2	1.98/1.6	2.35/1.2	3.02/1.6	2.87/2.0	2.81/1.6	3.58/2.0
13	Torsion Test(100xD)	Min.20	53	43	44	42	41	40	41
14	Stress at 1% Extension (KN)	Min.: 1200Mpa	5092/1258						

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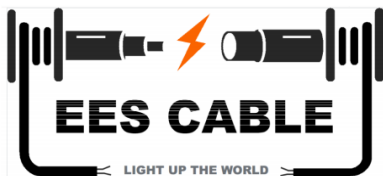
Add: Room 305, Building 2, No. 380 Fengxin Road, Hangzhou, China

www.eescable.com

Test Certificate (ACS strand wire 7/2.25mm, 20.3% IACS)

No.	Description	Technical Particulars(after strand)	Test Data						
1	Numbers of Drums		115/165						
2	Length(M)/Drum		6000(+5)						
3	Overall Diameter	Nom.: 6.75mm Min.: 6.65mm Max.: 6.85mm	6.75						
4	DC Resistance (Max.)	3.0626Ω/km	2.8330						
5	Lay Ratio	16-26	20.59						
6	Lay Direction	Left	Left						
7	Surface	free from any joints /welding's with smooth surface finish	ok						
8	Single Wire Diameter	Nom.: 2.25mm Min.: 2.21mm Max.: 2.29mm	2.245	2.258	2.243	2.235	2.244	2.237	2.242
9	Max. Resistivity at 20°C	84.8Ω mm ² / Km	0.08031	0.07747	0.07365	0.07948	0.8040	0.07941	0.07910
10	Thickness of Aluminum (mm)	10% of Nominal Wire Radius (Min. 0.113mm)	0.126	0.138	0.136	0.135	0.138	0.135	0.133
11	Breaking Load (KN)	Min.: 1340Mpa	1423	1417	1376	1398	1439	1300	1386
12	% Elongation on 250 mm G.L	Min.1.5(at fracture)/Min.1.0(after fracture)	2.43/1.2	217/1.0	1.84/1.2	2.77/1.2	3.06/1.2	2.43/1.2	1.84/1.2
13	Torsion Test(100xD)	Min.20	58	41	41	41	45	41	50
14	Stress at 1% Extension (KN)	Min.: 1200Mpa	4913N/1241						

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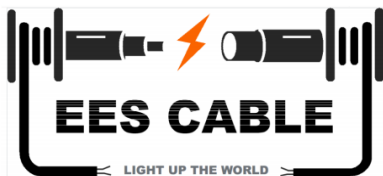
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Test Certificate (ACS strand wire 7/2.25mm, 20.3% IACS)

No.	Description	Technical Particulars(after strand)	Test Data						
1	Numbers of Drums		163/165						
2	Length(M)/Drum		6000(+5)						
3	Overall Diameter	Nom.: 6.75mm Min.: 6.65mm Max.: 6.85mm	6.75						
4	DC Resistance (Max.)	3.0626Ω/km	2.9067						
5	Lay Ratio	16-26	19.5						
6	Lay Direction	Left	Left						
7	Surface	free from any joints /welding's with smooth surface finish	ok						
8	Single Wire Diameter	Nom.: 2.25mm Min.: 2.21mm Max.: 2.29mm	2.245	2.24	2.246	2.25	2.259	2.26	2.253
9	Max. Resistivity at 20°C	84.8Ω mm ² / Km	0.07957	0.08057	0.08027	0.08067	0.08173	0.08128	0.08124
10	Thickness of Aluminum (mm)	10% of Nominal Wire Radius (Min. 0.113mm)	0.130	0.130	0.130	0.130	0.130	0.130	0.130
11	Breaking Load (KN)	Min.: 1340Mpa	1402	1394	1378	1401	1369	1376	1391
12	% Elongation on 250 mm G.L	Min.1.5(at fracture)/Min.1.0(after fracture)	2.57/1.6	2.15/1.2	2.35/1.6	3.28/1.6	1.84/1.2	2.79/1.6	3.99/2.0
13	Torsion Test(100xD)	Min.20	45	55	54	54	56	51	47
14	Stress at 1% Extension (KN)	Min.: 1200Mpa	4802/1213						

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Test Certificate (ACS strand wire 7/2.25mm, 20.3% IACS)

No.	Description	Technical Particulars(after strand)	Test Data						
1	Numbers of Drums		1074						
2	Length(M)/Drum		6000(+5)						
3	Overall Diameter	Nom.: 6.75mm Min.: 6.65mm Max.: 6.85mm	6.76						
4	DC Resistance (Max.)	3.0626Ω/km	2.76430						
5	Lay Ratio	16-26	20.41						
6	Lay Direction	Left	Left						
7	Surface	free from any joints /welding's with smooth surface finish	ok						
8	Single Wire Diameter	Nom.: 2.25mm Min.: 2.21mm Max.: 2.29mm	2.251	2.252	2.251	2.250	2.253	2.249	2.253
9	Max. Resistivity at 20°C	84.8Ω mm ² / Km	0.07809	0.07828	0.08134	0.07810	0.07929	0.07911	0.08011
10	Thickness of Aluminum (mm)	10% of Nominal Wire Radius (Min. 0.113mm)	0.142	0.134	0.141	0.134	0.132	0.135	0.139
11	Breaking Load (KN)	Min.: 1340Mpa	1388	1386	1370	1393	1370	1420	1380
12	% Elongation on 250 mm G.L	Min.1.5(at fracture)/Min.1.0(after fracture)	1.9/1.2	2.65/1.4	2.21/1.2	4.72/1.6	2.59/1.6	2.37/1.6	2.39/1.6
13	Torsion Test(100xD)	Min.20	53	55	43	49	55	47	45
14	Stress at 1% Extension (KN)	Min.: 1200Mpa	5074/1276						

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