

**60227 IEC 10 NYY or
60227 IEC 10 NYY - G**

 **TIS 11 Part 4-2553**

300/500 V 70°C SOLID AND STRANDED CONDUCTOR PVC INSULATED AND DOUBLE SHEATHED



CABLE STRUCTURE		TECHNICAL DATA	
Conductor	: Solid and Stranded annealed copper, Multi-core	Classification	: Maximum conductor temperature 70°C : Circuit voltage not exceeding 300/500 Volts 300 Volts between Line-to-Earth 500 Volts between Line-to-Line
Insulation	: Polyvinyl chloride (PVC/C)	Testing voltage	: 2,000 Volts
Core identification		Reference standard	: TIS 11 Part 4-2553, Table 1
2 Cores	: Blue and Brown	APPLICATION	
3 Cores	: Brown, Black and Grey or Blue, Brown and Green/Yellow	For installation exposed, or in raceway, wet or dry location.	
4 Cores	: Blue, Brown, Black and Grey or Brown, Black, Grey and Green/Yellow		
5 Cores	: Blue, Brown, Black, Grey and Black or Blue, Brown, Black, Grey and Green/Yellow		
Inner sheath	: Black polyvinyl chloride (PVC)		
Outer sheath	: Black polyvinyl chloride (PVC/ST4)		

Number of core	Nominal cross sectional area (mm ²)	Class of conductor	Insulation thickness nominal (mm)	Inner sheath thickness nominal (mm)	Outer sheath thickness nominal (mm)	Overall diameter		Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 70°C minimum (MΩ-km)	Continuous current rating in free air maximum (A)	Cable weight approx. (kg/km)	Standard length (m)
						Minimum (mm)	Maximum (mm)					
3	1.5	1	0.7	0.4	1.2	8.0	10.5	12.1	0.011	17	140	100/C
	1.5	2	0.7	0.4	1.2	8.2	11.0	12.1	0.010	17	150	100/C
	2.5	1	0.8	0.4	1.2	9.2	12.0	7.41	0.010	22	190	100/C
	2.5	2	0.8	0.4	1.2	9.4	12.5	7.41	0.009	22	210	100/C
	4	1	0.8	0.4	1.2	10.0	13.0	4.61	0.0085	29	250	100/C
	4	2	0.8	0.4	1.2	10.5	13.5	4.61	0.0077	29	270	100/C
	6	1	0.8	0.4	1.4	11.5	14.5	3.08	0.0070	37	340	100/C
	6	2	0.8	0.4	1.4	12.0	15.5	3.08	0.0065	37	370	100/C
	10	1	1.0	0.6	1.4	14.0	17.5	1.83	0.0070	52	520	500/D
	10	2	1.0	0.6	1.4	14.5	19.0	1.83	0.0065	52	570	500/D
	16	2	1.0	0.8	1.4	16.5	27.5	1.15	0.0052	69	810	500/D
	25	2	1.2	0.8	1.6	20.5	26.0	0.727	0.0050	92	1,200	500/D
35	2	1.2	1.0	1.6	22.0	29.0	0.524	0.0040	113	1,600	500/D	

Class of conductor
 1 : Solid
 2 : Strand

C : Packing in coil
 D : Packing in drum

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Insulation	: Polyvinyl chloride (PVC/C)	Testing voltage	: 2,000 Volts
Core identification		Reference standard	: TIS 11 Part 4-2553, Table 1
2 Cores	: Blue and Brown	APPLICATION	
3 Cores	: Brown, Black and Grey or Blue, Brown and Green/Yellow	For installation exposed, or in raceway, wet or dry location.	
4 Cores	: Blue, Brown, Black and Grey or Brown, Black, Grey and Green/Yellow		
5 Cores	: Blue, Brown, Black, Grey and Black or Blue, Brown, Black, Grey and Green/Yellow		
Inner sheath	: Black polyvinyl chloride (PVC)		
Outer sheath	: Black polyvinyl chloride (PVC/ST4)		

Number of core	Nominal cross sectional area (mm ²)	A.C. Resistance	Inductance	Reactance	Impedance
		R (Ω/km)	L (mH/km)	XL (Ω/km)	Z (Ω/km)
3	1.5 (1)	14.47766	0.33715	0.10592	14.47805
	1.5 (7)	14.47766	0.32216	0.10121	14.47801
	2.5 (1)	8.86608	0.32386	0.10174	8.86666
	2.5 (7)	8.86608	0.31600	0.09928	8.86664
	4 (1)	5.51589	0.30370	0.09541	5.51672
	4 (7)	5.51589	0.29313	0.09209	5.51666
	6 (1)	3.68527	0.28640	0.08997	3.68636
	6 (7)	3.68527	0.27891	0.08762	3.68631
	10 (1)	2.18967	0.28221	0.08866	2.19147
	10 (7)	2.18968	0.27380	0.08602	2.19137
	16 (7)	1.37612	0.25760	0.08093	1.37850
	25 (7)	0.87009	0.25619	0.08048	0.87380
35 (19)	0.62731	0.24617	0.07734	0.63206	

() : No of copper wire

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Outer sheath	: Black polyvinyl chloride (PVC/ST4)		

Number of core	Nominal cross sectional area (mm ²)	Class of conductor	Insulation thickness nominal (mm)	Inner sheath thickness nominal (mm)	Outer sheath thickness nominal (mm)	Overall diameter		Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 70°C minimum (MΩ-km)	Continuous current rating in free air maximum (A)	Cable weight approx. (kg/km)	Standard length (m)
						Minimum (mm)	Maximum (mm)					
4	1.5	1	0.7	0.4	1.2	8.6	11.5	12.1	0.011	17	160	100/C
	1.5	2	0.7	0.4	1.2	9.0	12.0	12.1	0.010	17	180	100/C
	2.5	1	0.8	0.4	1.2	10.0	13.0	7.41	0.010	22	230	100/C
	2.5	2	0.8	0.4	1.2	10.0	13.5	7.41	0.009	22	250	100/C
	4	1	0.8	0.4	1.4	11.5	14.5	4.61	0.0085	29	320	100/C
	4	2	0.8	0.4	1.4	12.0	15.0	4.61	0.0077	29	340	100/C
	6	1	0.8	0.6	1.4	12.5	16.0	3.08	0.0070	37	440	500/D
	6	2	0.8	0.6	1.4	13.0	17.0	3.08	0.0065	37	470	500/D
	10	1	1.0	0.6	1.4	15.5	19.0	1.83	0.0070	52	660	500/D
	10	2	1.0	0.6	1.4	16.0	20.5	1.83	0.0065	52	700	500/D
	16	2	1.0	0.8	1.4	18.0	23.5	1.15	0.0052	69	1,000	500/D
	25	2	1.2	1.0	1.6	22.5	28.5	0.727	0.0050	92	1,600	500/D
35	2	1.2	1.0	1.6	24.5	32.0	0.524	0.0044	113	2,000	500/D	

Class of conductor
1 : Solid
2 : Strand

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Inner sheath	: Black polyvinyl chloride (PVC)	APPLICATION	
Outer sheath	: Black polyvinyl chloride (PVC/ST4)	For installation exposed, or in raceway, wet or dry location.	

Number of core	Nominal cross sectional area (mm ²)	A.C. Resistance		Inductance		Reactance		Impedance	
		R (Ω/km)	L (mH/km)	XL (Ω/km)	Z (Ω/km)				
4	1.5 (1)	14.47766	0.37758	0.11862	14.47814				
	1.5 (7)	14.47766	0.36259	0.11391	14.47811				
	2.5 (1)	8.86608	0.36428	0.11444	8.86682				
	2.5 (7)	8.86608	0.35643	0.11198	8.86679				
	4 (1)	5.51589	0.34413	0.10811	5.51695				
	4 (7)	5.51589	0.33356	0.10479	5.51689				
	6 (1)	3.68526	0.32682	0.10267	3.68669				
	6 (7)	3.68526	0.31933	0.10032	3.68662				
	10 (1)	2.18966	0.32263	0.10136	2.19201				
	10 (7)	2.18966	0.31422	0.09872	2.19189				
	16 (7)	1.37609	0.29802	0.09363	1.37927				
	25 (7)	0.87004	0.29662	0.09318	0.87502				
35 (19)	0.62724	0.28659	0.09004	0.63367					

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						Minimum (mm)	Maximum (mm)					
5	1.5	1	0.7	0.7	1.2	9.4	12.0	12.1	0.011	17	200	100/C
	1.5	2	0.7	0.7	1.2	9.8	12.5	12.1	0.010	17	220	100/C
	2.5	1	0.8	0.8	1.2	11.0	14.0	7.41	0.010	22	280	100/C
	2.5	2	0.8	0.8	1.2	11.0	14.5	7.41	0.009	22	310	100/C
	4	1	0.8	0.8	1.4	12.5	16.0	4.61	0.0085	29	410	100/C
	4	2	0.8	0.8	1.4	13.0	17.0	4.61	0.0077	29	430	100/C
	6	1	0.8	0.8	1.4	13.5	17.5	3.08	0.0070	37	530	500/D
	6	2	0.8	0.8	1.4	14.5	18.5	3.08	0.0065	37	570	500/D
	10	1	1.0	1.0	1.4	17.0	21.0	1.83	0.0070	52	800	500/D
	10	2	1.0	1.0	1.4	17.5	22.0	1.83	0.0065	52	870	500/D
	16	2	1.0	1.0	1.6	20.5	26.0	1.15	0.0052	69	1,300	500/D
	25	2	1.2	1.2	1.6	24.5	31.5	0.727	0.0050	92	1,900	500/D
35	2	1.2	1.2	1.6	27.0	35.0	0.524	0.0044	113	2,500	500/D	

Class of conductor
1 : Solid
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Number of core	Nominal cross section area (mm ²)	A.C. Resistance	Inductance	Reactance	Impedance
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