

NYY-G TIS 11 Part 101-2553

450/750 V 70°C STRANDED CONDUCTOR PVC INSULATED AND DOUBLE SHEATHED WITH GROUND



CABLE STRUCTURE	TECHNICAL DATA
<p>Conductor : Stranded annealed copper : 2 cores up to 4 cores with ground : Size 25 mm² up to 300 mm²</p> <p>Ground Wire : Stranded annealed copper, : Size 16 mm² up to 150 mm²</p> <p>Insulation : Polyvinyl chloride (PVC/C)</p> <p>Core identification 2 Cores : Blue and Brown 3 Cores : Brown, Black and Grey 4 Cores : Blue, Brown, Black and Grey Ground wire : Green/Yellow</p> <p>Inner sheath : Black polyvinyl chloride (PVC)</p> <p>Outer sheath : Black polyvinyl chloride (PVC/ST4)</p>	<p>Classification : Maximum conductor temperature 70°C : Circuit voltage not exceeding 450/750 Volts 450 Volts between Line-to-Earth 750 Volts between Line-to-Line</p> <p>Testing voltage : 2,500 Volts</p> <p>Reference standard : TIS 11 Part 101-2553, Table 5</p>
APPLICATION	
For installation exposed, or in raceway, wet or dry location, or direct burial in ground.	

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 maximum (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 70°C minimum (MΩ-km)	Continuous current rating maximum		Cable weight approx. (kg/km)	Standard length (m)
									Free air (A)	Under ground (A)		
2+G	25 16 (G)	2	1.3 1.1	1.2	2.0	28.0	0.727 1.15	0.0054	108	136	1,200	500/D
	35 16 (G)	2	1.3 1.1	1.2	2.0	30.0	0.524 1.15	0.0047	132	165	1,500	500/D
	50 25 (G)	2	1.5 1.3	1.2	2.2	34.0	0.387 0.727	0.0046	160	195	2,000	500/D
	70 35 (G)	2	1.5 1.3	1.5	2.2	38.5	0.268 0.524	0.0039	200	239	2,700	500/D
	95 50 (G)	2	1.7 1.5	1.5	2.2	43.5	0.193 0.387	0.0038	245	288	3,600	500/D
	120 70 (G)	2	1.7 1.5	1.5	2.4	47.5	0.153 0.268	0.0034	285	329	4,500	500/D
	150 95 (G)	2	1.9 1.7	1.8	2.6	53.0	0.124 0.193	0.0034	325	368	5,500	500/D
	185 95 (G)	2	2.1 1.7	1.8	2.8	57.5	0.0991 0.193	0.0034	374	417	6,500	500/D
	240 120 (G)	2	2.3 1.7	2.0	3.0	64.5	0.0754 0.153	0.0033	440	481	8,500	500/D
	300 150 (G)	2	2.5 1.9	2.0	3.2	71.0	0.0601 0.124	0.0032	505	541	10,500	300/D

Class of conductor 2 : Strand

G : Ground conductor

D : Packing in drum

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Ground Wire	: Stranded annealed copper, : Size 16 mm ² up to 150 mm ²	Testing voltage	: 2,500 Volts
Insulation	: Polyvinyl chloride (PVC/C)	Reference standard	: TIS 11 Part 101-2553, Table 5
Core identification	2 Cores : Blue and Brown 3 Cores : : Brown, Black and Grey 4 Cores : : Blue, Brown, Black and Grey Ground wire : Green/Yellow	APPLICATION	
Inner sheath	: Black polyvinyl chloride (PVC)	For installation exposed, or in raceway, wet or dry location, or direct burial in ground.	
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 maximum (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 70°C minimum (MΩ-km)	Continuous current rating maximum		Cable weight approx. (kg/km)	Standard length (m)
									Free air (A)	Under ground (A)		
3+G	25	2	1.3	1.2	2.0	30.5	0.727	0.0054	94	117	1,500	500/D
	16 (G)	2	1.1	1.2	2.0	30.5	1.15	0.0054	94	117	1,500	500/D
	35	2	1.3	1.2	2.0	33.0	0.524	0.0047	115	141	1,900	500/D
	16 (G)	2	1.1	1.2	2.0	33.0	1.15	0.0047	115	141	1,900	500/D
	50	2	1.5	1.5	2.2	38.5	0.387	0.0046	136	164	2,600	500/D
	25 (G)	2	1.3	1.5	2.2	38.5	0.727	0.0046	136	164	2,600	500/D
	70	2	1.5	1.5	2.2	42.5	0.268	0.0039	174	205	3,500	500/D
	35 (G)	2	1.3	1.5	2.2	42.5	0.524	0.0039	174	205	3,500	500/D
	95	2	1.7	1.5	2.4	48.5	0.193	0.0038	213	245	4,700	500/D
	50 (G)	2	1.5	1.5	2.4	48.5	0.387	0.0038	213	245	4,700	500/D
	120	2	1.7	1.8	2.6	53.5	0.153	0.0034	247	279	6,000	500/D
	70 (G)	2	1.5	1.8	2.6	53.5	0.268	0.0034	247	279	6,000	500/D
	150	2	1.9	1.8	2.8	59.0	0.124	0.0034	284	315	7,500	500/D
	95 (G)	2	1.7	1.8	2.8	59.0	0.193	0.0034	284	315	7,500	500/D
185	2	2.1	2.0	3.0	64.5	0.0991	0.0034	325	355	9,000	500/D	
95 (G)	2	1.7	2.0	3.0	64.5	0.193	0.0034	325	355	9,000	500/D	
240	2	2.3	2.0	3.2	72.0	0.0754	0.0033	384	411	11,500	300/D	
120 (G)	2	1.7	2.0	3.2	72.0	0.153	0.0033	384	411	11,500	300/D	
300	2	2.5	2.2	3.4	79.5	0.0601	0.0032	438	462	14,000	300/D	
150 (G)	2	1.9	2.2	3.4	79.5	0.124	0.0032	438	462	14,000	300/D	

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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 maximum (mm)	Conductor resistance at 20°C maximum (Ω/km)	Insulation resistance at 70°C minimum (MΩ-km)	Continuous current rating maximum		Cable weight approx. (kg/km)	Standard length (m)
									Free air (A)	Under ground (A)		
4+G	25	2	1.3	1.2	2.0	34.0	0.727	0.0054	94	117	1,900	500/D
	16 (G)	2	1.1	1.2	2.0	34.0	1.15	0.0054	94	117	1,900	500/D
	35	2	1.3	1.5	2.2	39.0	0.524	0.0047	115	141	2,400	500/D
	16 (G)	2	1.1	1.5	2.2	39.0	1.15	0.0047	115	141	2,400	500/D
	50	2	1.5	1.5	2.2	43.5	0.387	0.0046	136	164	3,300	500/D
	25 (G)	2	1.3	1.5	2.2	43.5	0.727	0.0046	136	164	3,300	500/D
	70	2	1.5	1.5	2.4	49.0	0.268	0.0039	174	205	4,500	500/D
	35 (G)	2	1.3	1.5	2.4	49.0	0.524	0.0039	174	205	4,500	500/D
	95	2	1.7	1.8	2.6	56.5	0.193	0.0038	213	245	6,100	500/D
	50 (G)	2	1.5	1.8	2.6	56.5	0.387	0.0038	213	245	6,100	500/D
	120	2	1.7	1.8	2.8	61.5	0.153	0.0034	247	279	7,500	500/D
	70 (G)	2	1.5	1.8	2.8	61.5	0.268	0.0034	247	279	7,500	500/D
	150	2	1.9	2.0	3.0	68.0	0.124	0.0034	284	315	9,500	300/D
	95 (G)	2	1.7	2.0	3.0	68.0	0.193	0.0034	284	315	9,500	300/D
185	2	2.1	2.0	3.2	75.0	0.0991	0.0034	325	355	11,500	300/D	
95 (G)	2	1.7	2.0	3.2	75.0	0.193	0.0034	325	355	11,500	300/D	
240	2	2.3	2.2	3.4	84.5	0.0754	0.0033	384	411	14,500	300/D	
120 (G)	2	1.7	2.2	3.4	84.5	0.153	0.0033	384	411	14,500	300/D	
300	2	2.5	2.2	3.8	93.5	0.0601	0.0032	438	462	18,000	200/D	
150 (G)	2	1.9	2.2	3.8	93.5	0.124	0.0032	438	462	18,000	200/D	

Class of conductor 2 : Strand

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