

Multi-Pair(Twisting), Round Shape(R), with Shield

Model 1	Insulation and Sheath: General PVC, Shield: Copper Tape(SA)									
	Type (P3)	Division Symbol (P4)	-VVR-SA		Rated Temp.Range		60~105°C			

Model 2	Insulation: General PVC, Sheath: Flame-retardant General PVC, Shield: Copper Tape (SA)									
	FR-	Type (P3)	Division Symbol (P4)	-VVR-SA		Rated Temp.Range		60~105°C		

Applicable for some other kinds of PVC materials as follows:

Model 1: Heat-resistant PVC(HV), Special heat-resistant PVC(SHV), Cold-proof PVC(TV)

Model 2: Heat-resistant PVC Insulation and Flame-retardant Heat-resistant PVC Sheath (FR-HVVR) or Special heat-resistant PVC Insulation and Flame Retardant Special heat-resistant PVC(FR-SHVVR)

Model 1 & Model 2: Features: Excellence in Damp-proof, Water-proof
Applicable for ●Plain Copper Wire Braided Shield(BA)
●Tinned Copper Wire Braided Shield(BT)
Applicable for without-Shield type, too



0.5SQ										
Pairs		2	4	5	6	10	12	15	20	30
Conductor	Nominal sectional area (SQ)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
	Conductor (No./mm)	7/0.32	7/0.32	7/0.32	7/0.32	7/0.32	7/0.32	7/0.32	7/0.32	7/0.32
	Nom.O.D (mm)	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96	0.96
Insulation	Nom.thick (mm)	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
	Approx.O.D (mm)	2.16	2.16	2.16	2.16	2.16	2.16	2.16	2.16	2.16
Shield	Nom.thick (mm)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Sheath	Nom.thick (mm)	1.1	1.2	1.3	1.3	1.4	1.4	1.5	1.6	1.8
	Approx.O.D (mm)	10.3	12.0	14.0	14.4	18.3	18.9	21.1	24.1	28.8
Max. Length (m)		1000	1000	1000	1000	1000	500	500	500	500
Weight (kg/km)		126	186	237	261	406	451	554	716	1024

0.75SQ										
Pairs		2	4	5	6	10	12	15	20	30
Conductor	Nominal sectional area (SQ)	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
	Conductor (No./mm)	24/0.2	24/0.2	24/0.2	24/0.2	24/0.2	24/0.2	24/0.2	24/0.2	24/0.2
	Nom.O.D (mm)	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
Insulation	Nom.thick (mm)	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
	Approx.O.D (mm)	2.33	2.33	2.33	2.33	2.33	2.33	2.33	2.33	2.33
Shield	Nom.thick (mm)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Sheath	Nom.thick (mm)	1.1	1.2	1.3	1.3	1.5	1.5	1.6	1.7	1.9
	Approx.O.D (mm)	10.9	12.7	14.8	15.3	19.6	20.3	22.6	25.9	30.9
Max. Length (m)		1000	1000	1000	1000	500	500	500	500	500
Weight (kg/km)		143	214	274	302	481	537	659	855	1230

1.0SQ										
Pairs		2	4	5	6	10	12	15	20	30
Conductor	Nominal sectional area (SQ)	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	Conductor (No./mm)	7/0.44	7/0.44	7/0.44	7/0.44	7/0.44	7/0.44	7/0.44	7/0.44	7/0.44
	Nom.O.D (mm)	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32	1.32
Insulation	Nom.thick (mm)	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
	Approx.O.D (mm)	2.52	2.52	2.52	2.52	2.52	2.52	2.52	2.52	2.52
Shield	Nom.thick (mm)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Sheath	Nom.thick (mm)	1.2	1.2	1.3	1.3	1.5	1.6	1.6	1.8	2.0
	Approx.O.D (mm)	11.8	13.6	15.9	16.4	21.1	22.1	24.3	28.1	33.3
Max. Length (m)		1000	1000	1000	1000	500	500	500	500	500
Weight (kg/km)		170	250	320	355	569	663	788	1033	1488

□-□-VVR-SA / FR-□-□-VVR-SA

Multi-Pair(Twisting), Round Shape(R), with Shield

1.25SQ										
Pairs		2	4	5	6	10	12	15	20	30
Conductor	Nominal sectional area (SQ)	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25	1.25
	Conductor (No./mm)	7/0.45	7/0.45	7/0.45	7/0.45	7/0.45	7/0.45	7/0.45	7/0.45	7/0.45
	Nom.O.D (mm)	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35	1.35
Insulation	Nom.thick (mm)	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
	Approx.O.D (mm)	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55	2.55
Shield	Nom.thick (mm)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Sheath	Nom.thick (mm)	1.2	1.2	1.3	1.3	1.5	1.6	1.6	1.8	2.0
	Approx.O.D (mm)	11.8	13.6	15.9	16.4	21.1	22.1	24.4	28.1	33.6
Max. Length (m)		1000	1000	1000	1000	500	500	500	500	500
Weight (kg/km)		173	256	327	364	583	666	807	1070	1535

1.3SQ										
Pairs		2	4	5	6	10	12	15	20	30
Conductor	Nominal sectional area (SQ)	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
	Conductor (No./mm)	4/0.65	4/0.65	4/0.65	4/0.65	4/0.65	4/0.65	4/0.65	4/0.65	4/0.65
	Nom.O.D (mm)	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57	1.57
Insulation	Nom.thick (mm)	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
	Approx.O.D (mm)	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77	2.77
Shield	Nom.thick (mm)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Sheath	Nom.thick (mm)	1.2	1.3	1.4	1.4	1.6	1.6	1.7	1.9	2.1
	Approx.O.D (mm)	12.6	14.7	17.1	17.7	22.8	23.7	26.4	30.4	36.3
Max. Length (m)		1000	1000	1000	1000	500	500	500	500	500
Weight (kg/km)		195	289	380	423	678	764	939	1240	1785

1.5SQ										
Pairs		2	4	5	6	10	12	15	20	30
Conductor	Nominal sectional area (SQ)	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
	Conductor (No./mm)	7/0.52	7/0.52	7/0.52	7/0.52	7/0.52	7/0.52	7/0.52	7/0.52	7/0.52
	Nom.O.D (mm)	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56	1.56
Insulation	Nom.thick (mm)	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
	Approx.O.D (mm)	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76	2.76
Shield	Nom.thick (mm)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Sheath	Nom.thick (mm)	1.2	1.3	1.4	1.4	1.6	1.6	1.7	1.9	2.1
	Approx.O.D (mm)	12.6	14.7	17.1	17.7	22.8	23.7	26.3	30.3	36.2
Max. Length (m)		1000	1000	1000	1000	500	500	500	500	500
Weight (kg/km)		199	307	392	437	703	767	974	1282	1847

AWG16										
Pairs		2	4	5	6	10	12	15	20	30
Conductor	AWG	16	16	16	16	16	16	16	16	16
	Conductor (No./mm)	1/1.29	1/1.29	1/1.29	1/1.29	1/1.29	1/1.29	1/1.29	1/1.29	1/1.29
	Nom.O.D (mm)	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29	1.29
Insulation	Nom.thick (mm)	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.60
	Approx.O.D (mm)	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49	2.49
Shield	Nom.thick (mm)	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Sheath	Nom.thick (mm)	1.2	1.2	1.3	1.3	1.5	1.5	1.6	1.8	2.0
	Approx.O.D (mm)	11.6	13.3	15.5	16.0	20.6	21.4	23.8	27.6	32.8
Max. Length (m)		1000	1000	1000	1000	500	500	500	500	500
Weight (kg/km)		175	261	335	374	599	677	831	1097	1579