



■ Shielded Data Cable



APPLICATION

Transmission, control and data cable is suitable for security, audio, BMS, RS232, RS485, fire alarm systems. It can be used in dry and humid rooms.

Two cores are twisted to form a pair and aluminium foil screen with 100% coverage to reduce electromagnetic interference from external sources.

BENKA UL LISTED 1PR X 18 AWG RoHS



Construction	
Conductor	Flexible class 5 stranded tinned copper conductor intensifies anti-oxidative and anti-corrosive properties
Insulation	Polyethylene (PE) compound, twisted in pair
Overall screen	Aluminium foil screen
Drain wire	Tinned copper drain wire
Outer sheath	PVC/LSZH. Color: Grey/Orange/Black

Technical Data	
Rated voltage	300/500V – Control & instrumentation applications (Optional: 600/1000V) 30V – Analog/digital transmission
Test voltage	1500V
Rated temperature	-30°C to +70°C
Conductor resistance (max) @20°C (Ω/km)	According to IEC 60228 14 AWG: 9.35; 16 AWG: 14.6; 18 AWG: 23.5; 20 AWG: 35.8; 22 AWG: 57.4; 24 AWG: 90.9
Insulation resistance	> 2 GΩ x km
Impedance	65 to 120 Ω
Recommended current (max) @25°C (Amps)	14 AWG: 15.1; 16 AWG: 10.1; 18 AWG: 7.2; 20 AWG: 4.9; 22 AWG: 2.9; 24 AWG: 2.1
Smoke density	IEC 61034-2 (LSZH sheath)
Halogen free	IEC 60754-1 (LSZH sheath)
Flame retardant	IEC 60332-1
Standard & Approval	RoHS, UL
UL standard	UL2092, UL2095, UL2464...
Minimum bending radius	8 x OD (static)

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Part No.		Dimension n x AWG	Cable OD mm	Copper index kg/km	Weight kg/km
PVC jacket	LSZH jacket				
177 1214	855 1214	1PR x 14	9.5 ± 1.0	47	101
177 1216	855 1216	1PR x 16	7.8 ± 1.0	30	62
177 1218	855 1218	1PR x 18	5.5 ± 1.0	19	38
177 1220	855 1220	1PR x 20	4.9 ± 1.0	14	31
177 1222	855 1222	1PR x 22	3.9 ± 1.0	8	21
177 1224	855 1224	1PR x 24	3.5 ± 1.0	6	20
177 1314	855 1314	1TR x 14	11.5 ± 1.0	54	145
177 1316	855 1316	1TR x 16	9.2 ± 1.0	45	99
177 1318	855 1318	1TR x 18	6.5 ± 1.0	28	57
177 1320	855 1320	1TR x 20	6.0 ± 1.0	21	47
177 1322	855 1322	1TR x 22	5.0 ± 1.0	14	36
177 1324	855 1324	1TR x 24	4.8 ± 1.0	11	29
177 2214	855 2214	2PR x 14	12.8 ± 1.0	88	180
177 2216	855 2216	2PR x 16	10.5 ± 1.0	55	120
177 2218	855 2218	2PR x 18	7.5 ± 1.0	34	69
177 2220	855 2220	2PR x 20	6.6 ± 1.0	26	55
177 2222	855 2222	2PR x 22	6.0 ± 1.0	15	37
177 2224	855 2224	2PR x 24	5.7 ± 1.0	10	26
177 3214	855 3214	3PR x 14	15.3 ± 1.0	87	258
177 3216	855 3216	3PR x 16	12.6 ± 1.0	83	145
177 3218	855 3218	3PR x 18	9.5 ± 1.0	51	102
177 3220	855 3220	3PR x 20	7.9 ± 1.0	36	70
177 3222	855 3222	3PR x 22	7.4 ± 1.0	21	45
177 3224	855 3224	3PR x 24	7.0 ± 1.0	15	43
177 4214	855 4214	4PR x 14	18.2 ± 1.0	168	322
177 4216	855 4216	4PR x 16	15.5 ± 1.0	108	174
177 4218	855 4218	4PR x 18	12.5 ± 1.0	66	120
177 4220	855 4220	4PR x 20	9.9 ± 1.0	53	92
177 4222	855 4222	4PR x 22	9.0 ± 1.0	33	66
177 4224	855 4224	4PR x 24	8.5 ± 1.0	21	53