



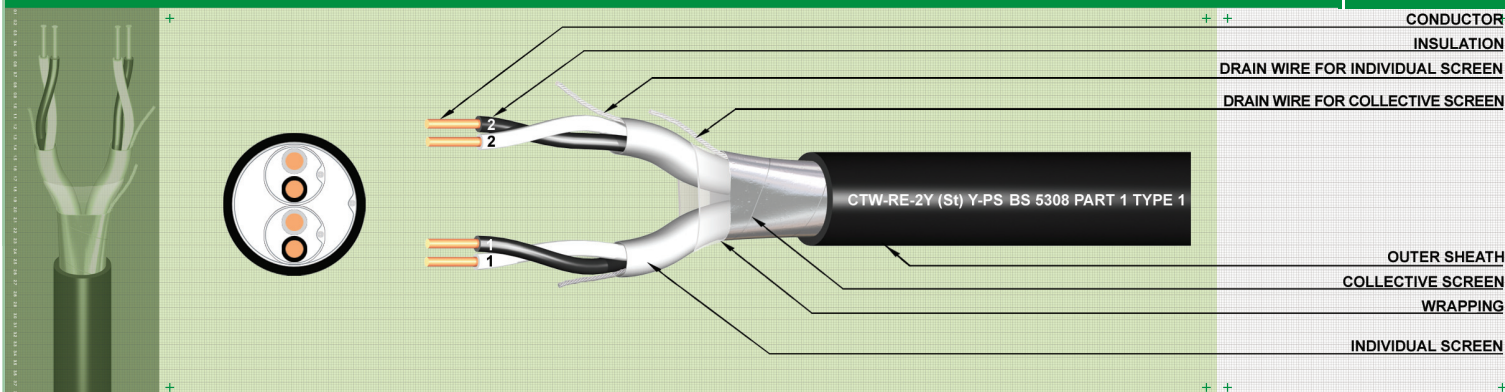
CHAROONG THAI WIRE & CABLE PUBLIC COMPANY LIMITED

CABLE TYPE : **CTW-RE-2Y(ST)Y-PS**

Standard : BS 5308 Part 1 Type 1

: Single pair & Multi pairs , PE Insulation, Individual & Collective Screen, PVC Sheath 300/500 V

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APPLICATION

For transmission of analog and digital signals in instrument and control systems; use in zone 1 and zone 2 group II classified areas (IEC 60079 part 14). Not allowed for direct connection to low impedance source, e.g. the public mains electricity. Not recommended for direct burial. For indoor and outdoor installation in dry and wet location on racks, in conduits.

CONSTRUCTION

Conductor : Plain annealed copper wire in according to BS 6360
 Insulation : Polyethylene (PE) Type 03 in according to BS 6234
 Colour code : BLACK / WHITE with continuous print numbered on cores
 (Optional : According to BS 5038 Part 1)
 Individual Screen : Consisting of Aluminum foil in contact with Tinned-Cu drain wire 0.5 mm².
 Wrapping : At least 1 layer of polyester tape
 Collective screen : Consisting of Aluminum foil in contact with Tinned-Cu drain wire 0.5 mm².
 Outer sheath : Black polyvinyl chloride (PVC) Type TM1 in according to BS 6746

OPTIONAL REQUEST

A special FR-PVC or Low Smoke Halogen Free (LSHF)
 * Flame retardant sheath can be supplied in accordance with BS4066 part 3
 * For LSHF only : BS 6425, BS 7622 , BS4066 part 3

TECHNICAL DATA

Flame retardant : BS 4066 part 1
 Temperature range : Maximum conductor operating temperature : +65 °C
 Minimum ambient temperature : -40 °C
 after installation and only when cable is in a fixed position
 Minimum bending radius : 6 x Cable- ϕ

ABBREVIATIONS

CTW : Trade mark
 RE : Instrumentation cable
 2Y : PE insulation
 (ST) : Aluminum foil with tinned-copper drain wire screening
 Y : PVC outer sheath
 PS : Pair screen

ELECTRICAL DATA AT 20°C

DESCRIPTION	Character	Unit	Values			
Conductor size	nom.	mm ²	0.5 solid	0.5 flexible	1.0 solid	1.5 stranded
Conductor resistance	max.	Ω/km.	36.8	39.7	18.4	12.3
Insulation resistance	min.	MΩ-km.	5,000	5,000	5,000	5,000
Mutual capacitance at 1kHz						
One pair and two pair	max.	nF/km.	115	115	115	115
Capacitance unbalance at 1 kHz	max.	pF/250m	250	250	250	250
L/R (ratio)	max.	μH/Ω	25	25	25	40
Test Voltage U_{rms} core : core		V	1,000	1,000	1,000	1,000
U_{rms} core : screen		V	1,000	1,000	1,000	1,000
Rate voltage U_o / U	max.	V	300/500	300/500	300/500	300/500



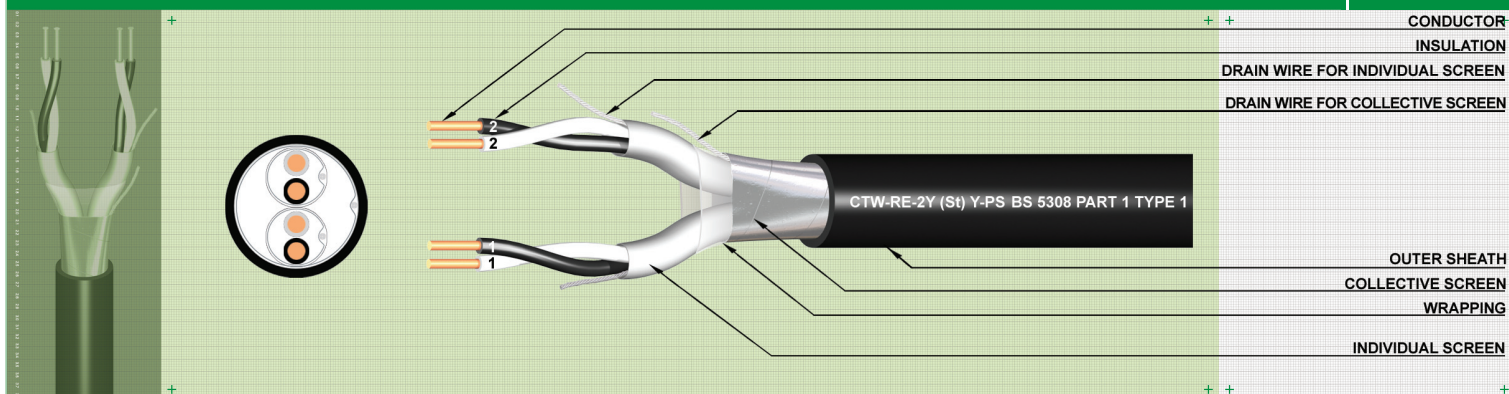
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Product code	Number of pairs	Nominal radial thickness of insulation m m	Nominal radial thickness of outer sheath m m	Overall diameter (approx.) m m	Cable weight (approx.) kg/km	Standard packing m/R
Conductor 0.5 sq.mm. (1/0.8mm.) Class 1						
T41270002	2	0.5	0.9	9.7	90	1,000
T41270005	5	0.5	1.2	13.0	180	1,000
T41270010	10	0.5	1.2	16.9	310	1,000
T41270015	15	0.5	1.3	19.7	440	1,000
T41270020	20	0.5	1.3	22.3	560	1,000
T41270030	30	0.5	1.5	27.1	820	1,000
T41270050	50	0.5	2.0	35.0	1,370	1,000
Conductor 0.5 sq.mm. (16/0.2mm.) class 5						
T41280002	2	0.6	1.1	11.2	110	1,000
T41280005	5	0.6	1.2	14.5	200	1,000
T41280010	10	0.6	1.3	19.3	350	1,000
T41280015	15	0.6	1.5	22.6	510	1,000
T41280020	20	0.6	1.5	25.7	620	1,000
T41280030	30	0.6	1.7	31.0	895	1,000
T41280050	50	0.6	2.2	39.9	1,535	1,000
Conductor 1.0 sq.mm. (1/1.3mm.) class 1						
T41180002	2	0.6	1.1	11.9	135	1,000
T41180005	5	0.6	1.2	15.4	250	1,000
T41180010	10	0.6	1.3	20.5	450	1,000
T41180015	15	0.6	1.5	24.1	675	1,000
T41180020	20	0.6	1.7	27.7	875	1,000
T41180030	30	0.6	2.0	33.7	1,290	1,000
T41180050	50	0.6	2.2	42.5	2,055	1,000
Conductor 1.5 sq.mm. (7/0.53mm.) class 2						
T41200002	2	0.6	1.2	13.6	180	1,000
T41200005	5	0.6	1.3	17.7	340	1,000
T41200010	10	0.6	1.5	23.9	635	1,000
T41200015	15	0.6	1.7	28.0	915	1,000
T41200020	20	0.6	1.7	34.7	1,165	1,000
T41200030	30	0.6	2.0	38.6	1,725	1,000
T41200050	50	0.6	2.2	48.9	2,770	1,000