



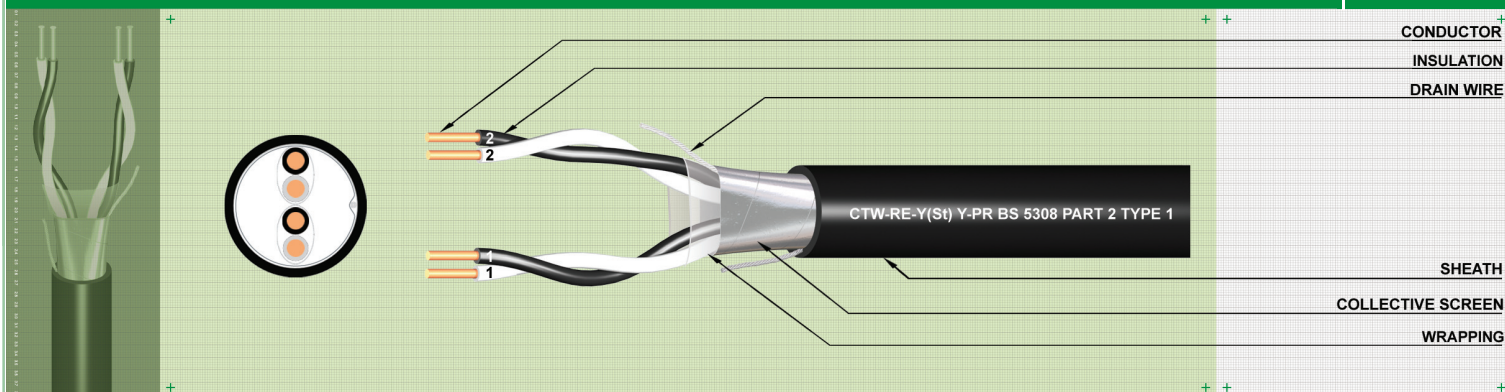
CHAROONG THAI WIRE & CABLE PUBLIC COMPANY LIMITED

CABLE TYPE : **CTW-RE-Y(ST)Y-PR**

Standard : BS 5308 Part 2 Type 1

: Single pairs & Multi pairs, PVC Insulation, 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 : Polyvinyl chloride insulation Type TI1 in according to BS 6746
 Colour code : BLACK with continuous print numbered on cores
 (Optional : According to BS 5038 Part 2)
 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 HalogenFree (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
 Y : PVC insulation
 (ST) : Aluminum foil with tinned-copper drain wire screening
 Y : PVC outer sheath
 PR : Pair

ELECTRICAL DATA AT 20°C

DESCRIPTION	Character	Unit	Values		
Conductor size	nom.	mm ²	0.5 flexible	0.75 flexible	1.5 stranded
Conductor resistance	max.	Ω/km.	39.7	18.4	12.1
Insulation resistance	min.	MΩ-km.	25	25	25
Mutual capacitance at 1kHz					
One pair and two pair	max.	nF/km.	250	250	250
Capacitance unbalance at 1 kHz	max.	pF/250m	400	400	400
L/R (ratio)	max.	μH/Ω	25	25	40
Test Voltage U_{rms} core : core		V	1,000	1,000	1,000
U_{rms} core : screen		V	1,000	1,000	1,000
Rate voltage U_o/U	max.	V	300/500	300/500	300/500



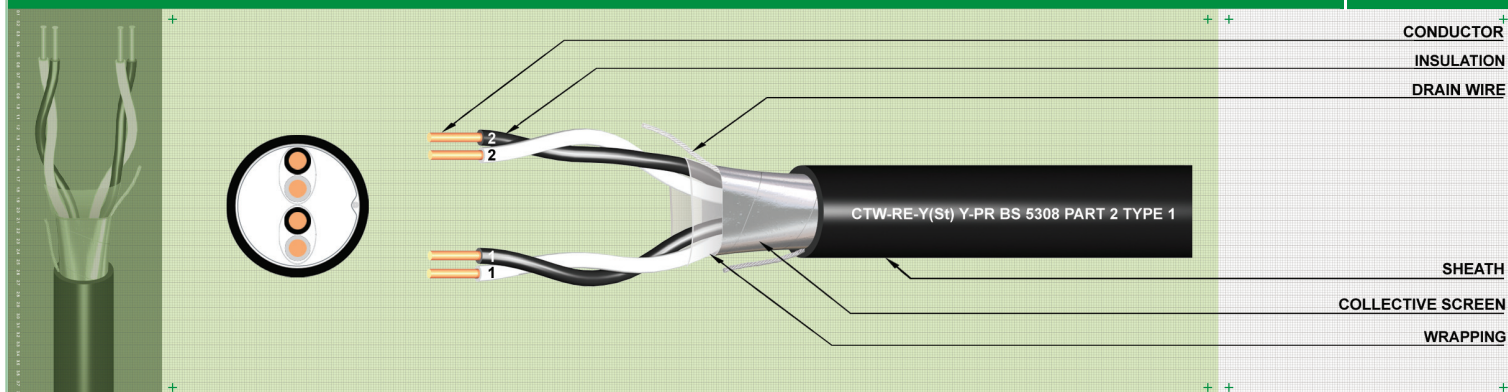
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APPLICATION

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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. (16/0.2mm.) Class 5						
T45280001	1	0.6	0.8	6.2	40	1,000
T45280002	2	0.6	0.8	7.6	70	1,000
T45280005	5	0.6	1.1	12.4	160	1,000
T45280010	10	0.6	1.2	16.5	280	1,000
T45280015	15	0.6	1.3	19.2	390	1,000
T45280020	20	0.6	1.3	21.7	450	1,000
T45280030	30	0.6	1.5	26.4	730	1,000
T45280050	50	0.6	1.7	33.74	1,160	1,000
Conductor 0.75 sq.mm. (24/0.2mm.) class 5						
T45310001	1	0.6	0.8	6.7	50	1,000
T45310002	2	0.6	0.8	8.2	80	1,000
T45310002	5	0.6	1.2	13.8	200	1,000
T45310010	10	0.6	1.3	18.4	350	1,000
T45310015	15	0.6	1.3	21.1	490	1,000
T45310020	20	0.6	1.5	24.4	660	1,000
T45310030	30	0.6	1.7	29.5	960	1,000
T45310030	50	0.6	2.0	37.6	1,540	1,000
Conductor 1.5 sq.mm. (7/0.53mm.) class 2						
T45200001	1	0.6	0.8	7.5	70	1,000
T45200002	2	0.6	0.9	9.3	130	1,000
T45200005	5	0.6	1.2	15.6	300	1,000
T45200010	10	0.6	1.3	20.9	540	1,000
T45200015	15	0.6	1.5	24.6	810	1,000
T45200020	20	0.6	1.5	27.8	1,030	1,000
T45200030	30	0.6	1.7	33.7	1,510	1,000
T45200050	50	0.6	2.0	43.0	2,470	1,000