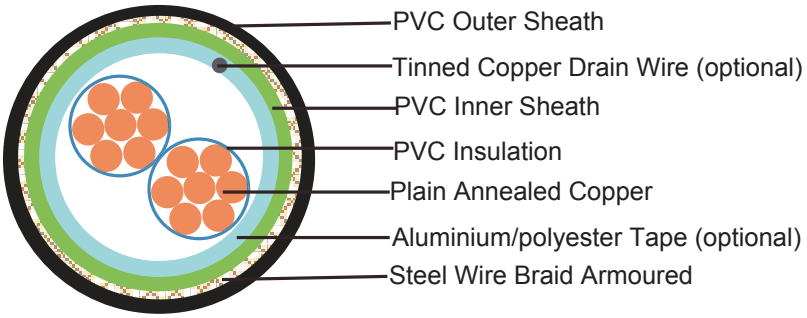
# Flame Retardant Instrumentation Cables (Multicore)

RE-YYSWBY PVC insulated without screen PVC sheath with steel wire braid armour protection

RE-Y(St)YSWBY PVC insulated Overall screen PVC sheath with steel wire braid armour protection




## APPLICATION

The PVC versions (Part 1 Type 1&2) are generally use for indoor installation and suitable for wet and damp areas. Generally used within industrial process manufacturing plants for communication, data and voice transmission signals and services.

## STANDARDS

Basic design adapted to BS 5308 Part1 Type 1 & 2

## FIRE PERFORMANCE

| | |
|---|---|
| Flame Retardance (Single Vertical Wire Test)** | EN 60332-1-2; IEC 60332-1-2; BS EN 60332-1-2; VDE 0482-332-1 ; NBN C 30-004 (cat. F1); NF C32-070-2.1(C2); CEI 20-35/1-2; EN 50265-2-1*; DIN VDE 0482-265-2-1* |
| Reduced Fire Propagation (Vertically-mounted bundled wires & cable test)** | EN 60332-3-24 (cat. C); IEC 60332-3-24; BS EN 60332-3-24; VDE 0482-332-3; NBN C 30-004 (cat. F2); NF C32-070-2.2(C1); CEI 20-22/3-4; EN 50266-2-4*; DIN VDE 0482-266-2-4 |

Note: Asterisk ** denotes that the standard compliance is optional, depending on the oxygen index of the PVC compound and the cable design.

## VOLTAGE RATING

300/500V

## CABLE CONSTRUCTION

Conductor: Plain annealed copper wire, stranded according to IEC(EN) 60228 class 2 and 5 .
Insulation: PVC compound
Overall Screen: Aluminium/polyester tape with 0.5mm$^2$ screen (7/0.3mm) tinned copper drain wire.
Inner Sheath: PVC compound
Armouring: Galvanised steel wire Braid

Outer Sheath: Thermoplastic PVC compound. UV resistance, hydrocarbon resistance, oil resistance, anti rodent and anti termite properties can be of fered as option. Compliance to fire performance standard (IEC 60332-1, IEC 60332-3, UL 1581, UL 1666 etc) depends on the oxygen index of the PVC compound and the overall cable design. LSPVC can also be provided upon request.

## COLOUR CODE

Insulation Colour: See technical information
Outer sheath: Black

## PHYSICAL AND THERMAL PROPERTIES

Temperature range during operation: Max.90°C for PVC
250°C in short-circuit for 5secs max.
Minimum bending radius (Fixing installation): 8 x Overall Diameter

## CONSTRUCTION PARAMETERS

| Conductor | | | RE-YYSWBY, RE-Y(St)YSWBY | | |
|---|---|---|---|---|---|
| No. of Core X Cross Section | No./ Nominal Diameter of Strands | Nominal Insulation Thickness | Armoured | | |
| | | | Diameter Under Armour | Armour Wire Diameter | Nominal Overall Diameter |
| $mm^2$ | No./mm | mm | mm | mm | mm |
| 3x1.5 | 7/0.53 | 0.6 | 8.9 | 0.20 | 12.5 |
| 24x1.0 | 32/0.20 | 0.6 | 17.9 | 0.20 | 22.5 |

Note : Other conductor sizes & core conf gurations are available upon request.

Rated Voltage

Standard


Flame Retardancy**
NF C32-070-2.1(C2)
IEC60332-1-2/EN50265-2-1


Reduced Fire Propagation**
NF C32-070-2.2(C1)
IEC60332-3-24/EN50266-2-4