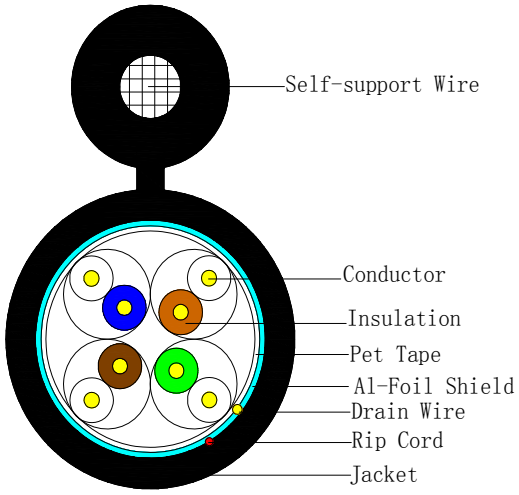
FTP cat5E outdoor with messinger

Cable Type: HSYYPC5E 4*2*0.5

Description

Solid annealed copper conductor
Polyethylene insulation
Aluminum foil shield
Galvanized steel wire as the self-support wire
PE outer sheath
Operating temperature -30~60℃

Cross section (for example)



Construction

Conductor:

Material	Solid annealed copper conductor
Conductor diameter(mm)	0.51

Insulation:

Material	Polyethylene
Insulation outer diameter(mm)	1.0±0.05

Twisted pair:

Chromatogram

1. White(Blue)-Blue
2. White(Orange)-Orange
3. White(Green)-Green
4. White(Brown)-Brown

Stranding construction	1*4
Shield	Aluminum foil
Drain Wire	0.4mm CCA

Self-Support wire

Self-Support wire dia(mm)	1.20

Outer Jacket

Material	PE
Jacket color	black
Jacket thickness(mm)	0.5
Outer diameter(mm)	6.0*2.4
Printing(for example)	

According to customer

Single conductor resistence@20℃	≤9.5Ω/100m
Pair DC resistence unbalance	≤2.5%
Insulation Resistance(DC 500V/1 min)	≥5000 MΩ·km
Dielectric intensity between conductors .DC.1min	1kV
Mutual capacitance Max	≤5.6nF/100m

Electrical characteristic(20℃)

Transmisson Characteristcs

Frequency MHz	Impedance Ω	Attenuation (dB/100m)	NEXT (dB/100m)	EL-FEXT (dB/100m)
1	100±15	2.0	65	64
4	100±15	4.1	56	52
10	100±15	6.5	50	44
16	100±15	8.2	47	40
20	100±15	9.2	46	38
31.25	100±15	11.7	43	34
62.5	100±15	17	38	28
100	100±15	22	35	24

Mechanical characteristic (20℃)

Conductor breaking elongation rate	≥15%
Insulation breaking elongation	≥300%
PE Jacket elongation before aging	≥300%
Aging condition	100±2℃,10×24h
Insulation breaking elongation after aging	≥300%
PE Jacket elongation after aging	≥300%
PE environmental Stress Cracking	no cracking

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