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534/534 - 1s - loss: 6.2123e-04
                          Epoch 55/60
                         534/534 - 1s - loss: 5.5881e-04
                         Epoch 56/60
                         534/534 - 1s - loss: 6.1256e-04
                         Epoch 57/60
                         534/534 - 1s - loss: 5.8022e-04
                         Epoch 58/60
                         534/534 - 1s - loss: 5.8456e-04
                         Epoch 59/60
                         534/534 - 1s - loss: 5.6776e-04
                         Epoch 60/60
                         534/534 - 1s - loss: 5.8967e-04
Out[11]: <tensorflow.python.keras.callbacks.History at 0x202ee4b2400>
In [12]:
                            1 ypred = model.predict(X_test)
                             print("y1 MSE: ", mean_squared_error(t_test.iloc[:, 0], ypred[:,0]))

#print("y2 MSE: ", mean_squared_error(t_test.iloc[:, 1], ypred[:,1]))

#print("y3 MSE: ", mean_squared_error(t_test.iloc[:, 2], ypred[:,2]))
                         y1 MSE: 4.166440601532479e-05
In [13]: 1 \times ax = range(len(X_test))
                              3 plt.scatter(x_ax, t_test.iloc[:, 0], s=6, label="y1-test")
                             4 plt.scatter(x_ax, ypred[:,0], label="y1-pred",c="red",alpha = 0.1)
                             6 plt.legend()
                              7 plt.show()
                               0.010
                               0.008
                               0.006
                               0.004
                               0.002
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                               0.000
                             -0.002
                            -0.004
                                                         v1-test
                            -0.006
                                                         yl-pred
                                                           200
                                                                        400
                                                                                      600
                                                                                                   800 1000 1200 1400 1600
In [14]:
                           1 x_ax = range(len(X_test))
                             3 y_test_index = np.argsort(t_test.iloc[:, 0], axis=0).to_numpy()
                             5 f = plt.figure()
                              6 plt.scatter(x_ax, t_test.iloc[y_test_index], s=6, label="y_test")
                                     plt.scatter(x_ax, ypred[y_test_index], s=6, label="pred",c="orange", alpha=0.5)
                             8 #plt.ylim(t_test.iloc[y_test_index[0]].to_numpy()[0])
                             9 plt.legend()
                           10 plt.show()
                           11
                           12 f.savefig("foo.pdf", bbox_inches='tight')
                               0.010
                               0.008
                               0.006
                               0.004
                               0.002
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                            -0.002
                            -0.004
                                                                                                                                                    y test
                             -0.006
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```